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AMERICAN RIFLEMAN

The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

Official Journal of the NATIONAL RIFLE ASSOCIATION OF AMERIC
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COVER

Known by many names to Westerners, some of them uncomplimentary, the coyote is a tricky, elusive target for the hunter (see page 24). E. P. Haddon photographed the coyote on the cover near Kim, Colorado, while in the field for U. S. Fish and Wildlife Service.

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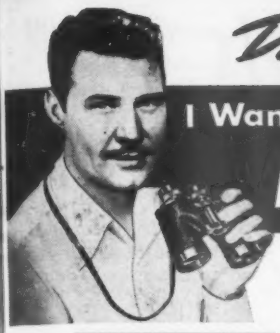

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THAT CIRCLE around the date of June 17 on the calendar is just a reminder that Father's Day falls on that date and it's important enough to us (and to you Riflemen, too) to pass up our mail bag questions and answers in this issue and talk about all of the fun and pleasure a good pair of binoculars can give you—and the other members of your family—this summer!

First of all, if you're a Father, there's no reason at all why you shouldn't have some voice in what the family is going to give you on *your* Day of Days. It's your big day and, my friend, us Dads earn it! If you don't want to come right out in a direct approach and tell the good wife that you'd sure like to have a pair of BUSHNELL'S 7x50's or 7x35's for your very own—you can take a more subtle approach and just clip this ad out, circle the model you want with a red crayon, and leave it under your breakfast plate tomorrow morning. They'll get the hint—fast...

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Looking at that June calendar sheet also reminds us that a lot of folks really miss more than half of the beautiful scenery on a vacation trip by not taking along a good pair of binoculars. Vacationists drive thousands of miles and spend hundreds of dollars to see the beauties of Nature. Yet few of us stop to realize how MUCH MORE we would see if we would remember to take binoculars along on the trip as well as a camera.

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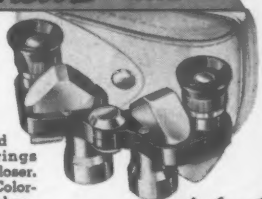

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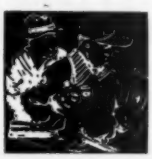

As we so often do when a major project is to be mapped out, most of the NRA staff got together the other day to plan for some of the details of the forthcoming annual convention in San Francisco. Frank Daniel, who ably serves as convention secretary (among other things) presented what he felt was a comprehensive, something-for-everyone agenda for the big get-together (which, by the way, is scheduled for October 8 through 11). If it had been presented to any group other than the NRA staff, that might have ended the matter. A quick okay and that's it. But that would be underestimating the capabilities of the NRA staff for finding fault with its own brainchildren.

As usual, Paul Cardinal (who turns out publicity for the Association) fired the first round. Cardinal, to his everlasting credit, seldom pulls punches. An ex-newspaperman, he criticizes with the same zest and enthusiasm with which he tackles his own job. "This is nothing but a competitions convention. That's fine — if you're a target shooter. But what about the hunter? The wildcatter? The handloader? The guy who just likes guns and wants to talk about them? What's for them?" (As it happened, Daniel had planned such sessions all along.)

Fifteen minutes later the meeting had once more slowed to a walk, and suggestions for hunter's and gun nut's sessions were more firmly than ever entrenched in the plan for the convention. Nothing definite, mind you. (You can't map out details in fifteen minutes.) But enough people had gone on record as favoring that idea of an even broader convention program that a good share of attractions for the non-target shooter was assured.

All told, the meeting lasted about an hour. Frank Daniel's proposed convention agenda was scrutinized thoroughly—and revised considerably.

As this issue goes to press, Daniel is in San Francisco, wrestling with such minor details as the scheduling of several dozen important meetings in easily-accessible but nonetheless scattered locations in the big city by the bay . . . and arranging for hotel accommodations for a thousand or so NRA members who'll be attending . . . along with such apparent trivia as making certain that there will be typewriters available in the room assigned to the public relations crew, and that tickets will be printed for the annual banquet which always winds up the big affair. (Being a convention manager is no snap, in case you haven't figured it out already.)

Meantime, this much is definite. Convention dates, as already mentioned, are October 8 through 11. The place, San Francisco. In advance of the "opening date," the convention exhibits will be unveiled on Saturday evening, October 6. Registration: Sunday, the seventh. On Monday morning, October 8th, a general session to keynote the whole get-together. Wednesday, October 10, Trailblazer's breakfast and NRA member's meeting. Thursday evening, the annual banquet. Friday morning, October 12, the board of director's meeting.

That's just the skeleton—the dry bones of the convention. There will be plenty to interest shooters and gun lovers of every sort, as well as a full share of the "fill-ins" which make any convention an experience—side trips, sightseeing, bull sessions in the inevitable smoke-filled rooms. And don't forget that the national rifle and pistol championships are being fired in San Francisco just before the convention proper—smallbore, pistol and, possibly, .30 caliber matches for the first time in many years.

All told, this 1951 whingding (the Third Annual NRA Convention, to be formal about it) promises to be terrific. And if you have any doubts about the hospitality, the real friendliness, the human warmth of San Francisco, come out in October and let the folks change your mind for you!

JS

RIFLEMAN WORDS • • •

A lexicon for shooters which defines words and terms appearing in articles more fully than is possible by their use in text.

BACKING CARD—A blank card, the same size as the target card, placed a carefully determined distance behind the target, which, by the comparison of shot holes in the target and the backing card, shows from which firing point a cross fire was shot.

BURR HAMMER—An exposed hammer having a somewhat circular serrated projection at the top to provide a gripping surface for cocking. The large Mauser Military pistol, the Browning model 1935, and the new Colt Commander have burr hammers. The circular burr or projection usually has a hole drilled through it.

CHEEKPIECE—A raised portion on the side of a gunstock on a rifle or shotgun which supports the shooters face in the proper position for aiming.

DISCONNECTOR—A device built into an automatic pistol to prevent the weapon from being fired unless the action is fully closed, and to prevent the firing of more than one shot for each pull of the trigger.

FOLDING TRIGGER—Folding triggers were quite common on pocket pistols in the 18th and early 19th centuries. The trigger is hinged so that it can fold forward into a recess in the stock or frame. When the hammer is raised to full cock the trigger springs out into position for firing.

GAS-CHECK BULLETS—Lead bullets made with a copper-alloy cup on the base to prevent fusing of the lead and to aid in preventing the escape of hot gas around the bullet.

HOMOGENOUS ARMOR PLATE — A steel plate which is the same composition or structure throughout. Unlike face-hardened armor.

LATCH—The thumbpiece on the side of a revolver with a swing-out cylinder. The latch actuates the locking bolt and releases the cylinder so that it may be swung out on its crane for loading or unloading. It is usually located on the left side of the frame. In Colt revolvers the latch or thumbpiece is drawn to the rear to release the cylinder. Cylinders of Smith and Wesson revolvers are released by pushing the latch forwards.

MUZZLE FLASH—The incandescent flash in the air at the muzzle of the gun following the departure of the bullet; caused by the sudden release and expansion of powder gasses, the expulsion of burning powder grains and the ignition of gases in the air.

STAGE—In a match fired at more than one range or in more than one position, each range or position is referred to as a stage of the match. A Dewar match is a two stage match. as it calls for firing at both fifty and one hundred yards.

THIMBLES—The metallic loops on the under side of a muzzle-loader which hold the ramrod when it is not in use.

TOUCH BOX—A primer or case for priming powder from which the pan and touch hole of a flintlock or wheellock could be filled.

TOUCH HOLE—The vent, flash hole, or tube between the priming charge and the propellant charge in muzzle loaders.

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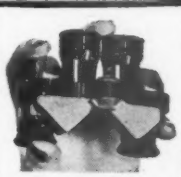

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Editor:

I read with much interest Maj. Gen. Edson's editorial in the April issue. It brought back very vividly a part of my experience in the First World War.

I remember quite well when the word came through, as we were training men in the States for service in Europe, that General Pershing was urging that men destined for his American Expeditionary Force be thoroughly trained in rifle marksmanship. Immediately following that time, special effort was made, in the organization in which I was serving, to carry out his desires very carefully.

Sometime after being sent to France, it became my lot to be . . . an instructor, under what was then known as the McNab system of rifle instruction, to train men in marksmanship, who were coming from the States and had not yet received any training therein. Of course, it should be said that they had no training in anything. We did our best, in that center, to train the men who were sent to us for that purpose, and give them as much as we could during the time that they were with us. They were supposed to be there, for rifle and other training, for a period of forty days. I think the longest we had any of them was ten days and the shortest time was one day.

At that time, the call for men at the front was so urgent that they were sent without training. Many of them had never even fired the service rifle. They were sent up to the front in that condition by the thousands. This was done, I know, not from the desire of those in authority, but purely by force of circumstances and the lack of time to give that training. The casualty list in the Argonne reflected the result. It should never be allowed to happen again.

I do not know how widely this situation is known throughout the country, but I feel that now is the time that lesson of history should be given due publicity, so that the people of this country will never allow it to happen again.

F. E. Hershey

DEAD ELK

Denver, Colorado

Editor:

That elk pictured on page 19, April Rifleman, died a lot easier in 1951 than it did in the August 1949 Rifleman, page 31.

Clark had to hit it in back of the head with a .30-30 in '49. Now Keith kills it with one shot from a .400 Whelen. Did it take two years to get a one-shot kill with the .400 and did Clark miss? We all know Keith didn't.

W. F. Brokate

● *You can blame the caption writer for that one, not Keith—Editor.*

DOG DAYS

San Bernardino, California

Editor:

I would have renewed my subscription to the Rifleman long ago, but talk about hard luck! In December I had the money, but I live in the biggest county in the USA, and in this county we have a law that says all dogs must have rabies shots, so I took your money and spent it on my poor dog. So I started all over again. I had your money all ready to send you this time, but this no-account dog of mine wanted to eat, so I spent your money for dog food. So we (the dog and I) started all over again.

I had your money the third time then we (still the dog and I) went to the desert. We had a grand time for a while, then the poor dog . . . well, do you know what a jumping cactus is? Anyway, if you don't know what it is, stay away from it. Getting back to my poor dog, well the poor mutt came back to the car with about five cactus burrs in his mouth. He looked like he'd et a porcupine. So it was you or the dog doctor, and I spent your money again. Looked like you never would get back on the job.

Now we (the dog and I) have started all over again. Here's your money and I hope your job will be steady now.

Yours in hard luck.

E. C. Todd

FLITTERS AGAIN

Bellflower, California

Editor:

You can tell Mr. Earl Reed (Ricochets, April, page 6) that MacFarland was flat as a flitter just as he stated. A flitter is a decorative piece of tin or brass and is much thinner than a fritter.

E. P. Harmon

CREDIT TO BERDON

Fort Knox, Kentucky

Editor:

I have received inquiries relating to a statement in the article written by Harry Reeves in the April issue of the Rifleman wherein he referred to my .22 caliber Colt Match Target Woodsman, which I used in winning the 1949 World Championship, as a Colt *King* Woodsman.

This is an error on Harry's part, unintentional I am sure. The gun has a King front rib, but the accuracy job is by Mr. A. E. Berdon, as are those of all the guns which I use in competition.

M/Sgt. Huelet L. Benner

THAT .25-20

Georgetown, Delaware

Editor:

The article "High-Powered Midget" (May) by Harry O. Dean was wonderful reading. The last time I shot my Savage .25-20 was a few years ago and I did not think much of it. But with Mr. Dean's loads I'm going looking for varmints.

Joseph P. Clauser

PHOENIX PISTOL SCHOOL

Terrace Park, Ohio

Editor

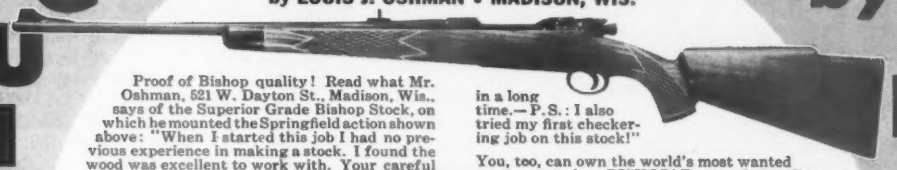
Congratulations on the excellent article on the Phoenix Pistol Academy (May). Articles such as this are interesting to all pistol shooters and can have a great effect

Here's the

STOCK OF THE MONTH

by LOUIS J. OSHMAN • MADISON, WIS.

GUN STOCKS by BISHOP



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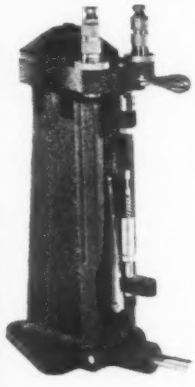

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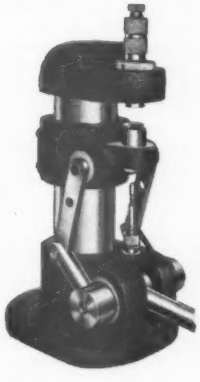

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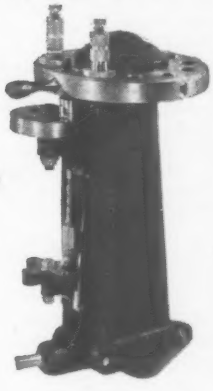

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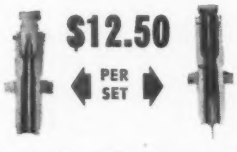

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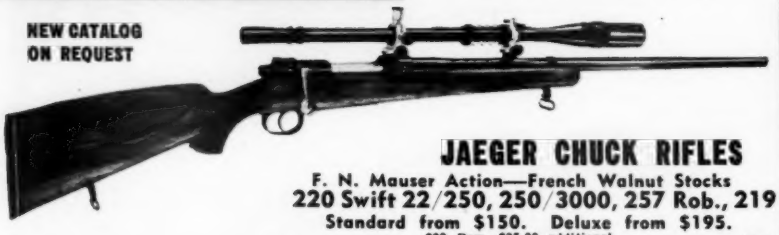

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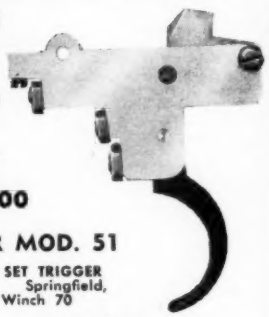

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RICHARD S. BEEBE

AS IS

Kingston, Washington

Editor:

The members of Kingston Post No. 7329 VFW Rifle Club, now totaling fifty, naturally notice the many letters to the editor of the AMERICAN RIFLEMAN. These have been the subject of comment at our meetings. The club feels that the magazine is the best to be found. . . . We did not become members of the Association to obtain a magazine full of stories such as many outdoor and sporting magazines contain. Keep the magazine full of the same type articles as the present ones. . . .

ALBERT H. SWIFT,
Secretary

BARREL STRAIGHTNESS

Santa Barbara, California

Editor:

The article on barrel straightening in the May issue of the RIFLEMAN by Robert D. Emmons is a clear, concise statement of facts in so far as it goes, and barrel makers and riflesmiths will unquestionably concur with Mr. Emmons' conclusions. But, stopping where he did, the author leaves the layman with the false impression that barrel straightness per se is essential to good grouping, and without it an otherwise good rifle will not perform. Such a conclusion would be erroneous. A properly rifled and turned barrel will shoot equally well, whether it be straight or not, so long as the tube is not kinked.

When a barrel warps in turning, it is straightened between cuts in the lathe and not after it is finished turned. A barrel that is eccentric between inside diameter and outside diameter will change its zero as the steel warms up in firing. Straightness in itself is, of course, desirable and is always attained if possible, but concentricity is the important thing. Without it, constant zero can not be maintained.

ROY GRADLE

SEATTLE

New York, New York

Editor:

Shooters in Seattle *are* leading a way. Of course, other cities have taken similar action, as in the case of the Associated Gun Clubs of Baltimore, but apparently not on as large a scale or with an administrative set-up so completely organized.

Instances of the formation of local organizations to strengthen the position of shooters are becoming increasingly common. Too often, it is apparently the only way in which shooters can obtain a place to shoot. And have you noticed the increasing frequency with which the possibility of erecting European-style shooting ranges with safety barriers in densely populated areas is being mentioned?

L. V. SIMMONS

ANTIGUN LAWS

Editor:

Concerning restrictive arms legislation: I have never seen where helplessness produced good will—just the opposite, and the lawmakers know it. The argument is that the presence of firearms is conducive to

crime. As far as I know, this argument is never used on people with good sense. If the people of America can't be trusted, the problem is out of the limits of petty lawmakers and partly educated moralists. If the people can't be trusted with firearms, how could they be trusted with any tools this day and age?

A. O. TSHIRNER

GUN LAW CAMPAIGN

Kandahar, Sask., Canada

Editor:

I am one of your foreign subscribers, born in Denmark, now a Canadian citizen. . . .

Your gun law campaign has been of much interest to me because the "Gestapo" in Denmark had all firearms registered by the time Hitler got to power. I had left Denmark at the time, but they told me about it. One of my pals (Underground 1940-1945) sent me a letter a few days ago and everything looks pink now.

When the war was over, there were about 275,000 men of the German army in Denmark and most of them surrendered without equipment. The underground got some firearms by air and it proved to be in the main some junk that could not shoot straight. That was collected in due time by the English who had supplied it and was not missed a bit. The German firearms fell into the hands of the disarmed Danish rifleman and should be registered too, according to law. When a man had liberated two or more rifles he registered only one, because, as my friend says, "Next time there is an invasion, I am not going to stand by with my bare hands even if they are sizeable." There was a three-cornered fight for possession of these rifles. The English claimed it as war booty or something and the Danish War Department claimed they had a right to them, while the guys in possession just sat tight and hardly said anything but kept a good hold on them. The English furnished a quit claim. The Danish War Department said the Rifle Association could use them until further notice and registration while still on the book seems forgotten.

C. E. PEDERSEN

DISTRIBUTION

Littleton, Colorado

Editor:

Incidentally (page 4) in May is perfectly splendid. A copy of it should go to every fish and game commission, and it should be reprinted in all conservation periodicals. Education in firearms safety is of the same importance as conservation.

ALLYN H. TEDMON

FOUR-INCH BARREL

Philadelphia, Penna.

Editor:

The picture article on the Phoenix Pistol Academy (page 16) in May is particularly interesting, except that I wouldn't call a 4-inch revolver barrel snub-nosed.

EDWARD MASON

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C. B. LISTER

May 14, 1951

As people do in the presence of death, we were reminiscing
the other day . . . probing back into an almost forgotten time. We talked of the beginnings
of the shooting game in America—the start of the "modern" era after World War I.
We found it impossible to bring up any phase of the game as we know it that was not conceived
or profoundly influenced by one man.
In our time C. B. Lister has completely dominated one facet of the American scene.
For three decades Lis served the cause of organized shooting in America with a singleness of purpose
that might have stifled the thinking of a lesser man.
For Lis it was broadening. It was devotion to a creative ideal—an ideal of freedom
and lifelong devotion to something that he believed in deeply;
that he wanted others to believe in.
Lis's brand of patriotism was big and, as he liked to say, "practical".
Marksmanship was patriotism to Lis.
It meant more to him than a few people shooting at paper targets.
For Lis the shooting game stood for sportsmanship and love of country.
Characteristically, Lis was able to relate marksmanship to everything that was best in us.
In so doing he made of it something that was bigger than it had ever been before.
Lister's death is a shocking and tragic loss to the cause for which he did so much. He died
at an age when most men can look forward to decades of useful living.
Fortunately for the ideal to which Lis devoted his life, even the tragedy of his untimely death
had its redeeming feature. Lis had something that most men are denied.
He finished the job he set out to do.
The legacy he leaves us is more than an organization called the National Rifle Association.
Out of his clarity of vision, and the breadth of his approach, Lis gave us a way of thinking
that will endure as long as our way of life endures. The legacy of C. B. Lister
is the consciousness of a nation of free men of their right to bear arms.

JS

C. B. LISTER DIES

Leader of organized shooting in the United States, and guiding spirit of NRA's fight against antigun legislation, succumbs at 52

THE DEATH OF Charles Baynard Lister marks the end of an era for organized shooting in the United States. Lister came into the shooting game shortly before our entry into World War I, at a time when it was all but dormant, and played the principal role in bringing it to its present position of national prominence. His service as executive director of the National Rifle Association climaxed a lifetime of devotion to the furtherance of a concept of marksmanship as an integral part of American life and tradition. Lister succeeded in establishing his ideal to a degree realized by few men.

Through his writings—particularly the editorials which appeared each month in the AMERICAN RIFLEMAN—and his manifold personal contacts, Lister preached a doctrine of preparedness and sportsmanship which lifted the shooting game out of its position as a 'bush-league' sport and made it an influential element of our national life.

Lister was born in Wilmington, Delaware, in 1898. Curiously, it was not until he was nearly sixteen that he became conscious of shooting as a sport—and then only in order to add another to the Boy Scout merit badges he already had earned. A young National Guard lieutenant, T. G. Samworth, took him in tow and so thoroughly sold Lister on marksmanship that he wound up as instructor for several Boy Scout troops. More significant perhaps was the fact that Lister discovered an organization called the National Rifle Association, from whom he could get a "junior marksmanship" button. As Lister remembered it, "I got the button, and in the process found myself thoroughly sold on the shooting game."

Lister's first contact with "professional" marksmanship took the form of an offer from E. I. duPont de Nemours & Company in Wilmington, tendered by the same National Guard lieutenant who had encouraged Lister in his quest for a marksmanship merit badge. Early in 1916 Lister went to work for duPont, and began the long acquaintanceship with the facts and faces of the shooting game which was to continue throughout his life.

In later years Lister often paid tribute to K. K. V. Casey, his first boss at duPont. Casey was an old-timer in the shooting game and had been an internationally famed long-range rifleman. Under his tutelage Lister was introduced to the competitive shooting game and began his long climb to the top position among organized marksmen in America.

Lister served in the United States Army from 1917 until the Fall of 1919. He returned to duPont where with no success the company attempted to make a professional trapshooter of him. Fortunately for the sport he was later to serve so ably, he was by this time completely indoctrinated with the rifle and pistol game. As he expressed it later, "More or less in self defense, I organized the Diamond State Rifle and Pistol Club in Wilmington in 1920 and was elected secretary." Through his position as secretary of the new club, Lister once again found himself in contact with the National Rifle Association—for the first time since the Junior Marksman button of his boyhood.

During these formative years two men played a profound role in shaping Lister for the job he was later to hold so ably. K. K. V. Casey of duPont was one of them. The other was the young National Guard lieutenant who had taken Lister under his wing when he wanted a Boy Scout marksmanship merit badge. Tom Samworth was an employee of the duPont Company and it was he who had been responsible for Lister's first job with that organization. Samworth in the meantime had come to Washington as associate editor of "Arms and The Man," the official journal of the National Rifle Association and predecessor of today's AMERICAN RIFLEMAN. Once each year Samworth also served as statistical officer for the National Rifle and Pistol Matches at Camp Perry, Ohio.

In 1921 Lister was released from his sales correspondence and advertising post with duPont long enough to attend the Camp Perry Matches as a member of the Delaware civilian rifle team. As Lister later told the

Lister chats with Association president, Maj. Gen. M. A. Edson

story, "While at Perry that year, I received a hurry-up call from Tom Samworth to get a rush week-end printing job done for the Camp Perry statistical office. I got it done and in the process met for the first time the secretary and executive committee members of the National Rifle Association. As a result of that incident, and at Tom's instigation, of course, I found myself in Washington two months later with the title of 'advertising and promotion manager' for the NRA.

At that time the infant National Rifle Association had about 3,500 individual members, and about 450 more-or-less organized clubs. The Association's magazine, "Arms and the Man," had a net paid circulation of about 2,400.

From his previous experience among civilian shooters, Lister knew that there was a far greater potential for NRA membership than that shown on the Association's limited rolls. The NRA was at that time composed almost entirely of members of the National Guard and Regular Army. Taking advantage of his job as advertising and promotion manager, Lister attempted to sell the NRA and its magazine to civilian 'gun nuts.' The idea worked. By year's end 1922 the NRA had an unprecedented 4,200 members. In 1923 there were 7,600. In 1924, 9,200. In 1925, 10,700.

In 1926 the NRA underwent a complete reorganization. One result was the acceptance of Lister's thesis that the civilian shooter represented the greatest potential for NRA membership. More important was the creation of a job for Lister in which he could translate his ideas into action with the full blessing of the NRA.

Major General M. A. Reckord, then as now the Adjutant General of Maryland, was installed as Secretary of the NRA, and a new job, that of Assistant Secretary, was created for Lister. The following year General Reckord was elected to the newly-created office of executive vice-president and Lister was named national secretary. For two decades these two men—one military and one civilian—worked shoulder-to-shoulder in creating the NRA as we know it today. It was not until 1949, when General Reckord retired, that the highly successful team broke up. Lister went on alone as executive director.

Lister contributed enormously to the cause of organized shooting in America. His greatest contribution, of course, was the NRA itself. His other contributions are many. He was a leader in the long fight to combat

Lister's last 'public appearance' was in '49 at 2nd NRA convention. Here he greets Colorado governor in Denver

restrictive antigun legislation in this country. Following Pearl Harbor, while Reckord was in the service, Lister took the initiative in making the NRA, its facilities, and its members available to the Armed Forces of the United States in order to supply marksmanship training.

One of the few real disappointments of Lister's life occurred early in World War II. A radiogram from General MacArthur's headquarters requested that Lister be commissioned and flown to Australia for service in the Pacific. An all-but-forgotten skirmish with tuberculosis cheated Lister out of the experience when the Army's X-rays showed old scar tissue and he was turned down for overseas service. He was not interested in military service "stateside" and fortunately, as it turned out, tackled his planning for the NRA's role in the war effort with renewed vigor.

Letters of commendation from the President of the United States, the Chief of Staff, and numerous public figures, testify to the value of the wartime job the NRA accomplished under Lister's guidance. Today as we face another period of national emergency and possibly a catastrophic war, the plan Lister developed for World War II is again being activated. In this, as in so much else, the contribution of C. B. Lister will provide a solid foundation of accomplishment for many years to come.

Lister was the author of numerous articles in the AMERICAN RIFLEMAN, and was a contributor to the Encyclopedia Britannica, Webster's Dictionary and many magazines in trade and educational fields. One of his last major jobs was the organization of a plan for the uniform reporting of gun accidents to state game commissions. This plan, just now coming into effect, will for the first time give legislators a substantial body of factual material upon which to base proposed hunting and firearms control legislation.

Lister was an active member of the Optimist Club of Washington, the National Press Club, the American Ordnance Association, the University Club, and the Columbia Country Club. He was a member of the Board of Directors of the Boy's Club of Washington, and of the Washington Criminal Justice Association. He was also a member of the National Council of Boy Scouts of America, a member of the American Olympic Committee, and of the National Board for the Promotion of Rifle Practice, which was created by the National Defense Act of 1916.

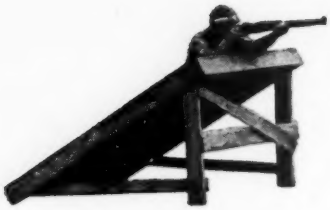
Lister is survived by his widow, Mrs. Frances Lynette Lister, a daughter, Mrs. Richard Quigley, and a granddaughter. His mother and father, Mr. and Mrs. James W. Lister, and a sister, Mrs. Elva L. Barkley, still live in Lister's boyhood home, Wilmington, Delaware.

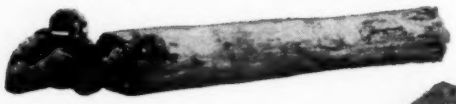
Death came as the climax of a brave but unsuccessful fight against cancer of the brain. Lister was 52.

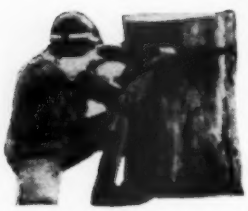
Burial, following a simple ceremony, was at Arlington National Cemetery.

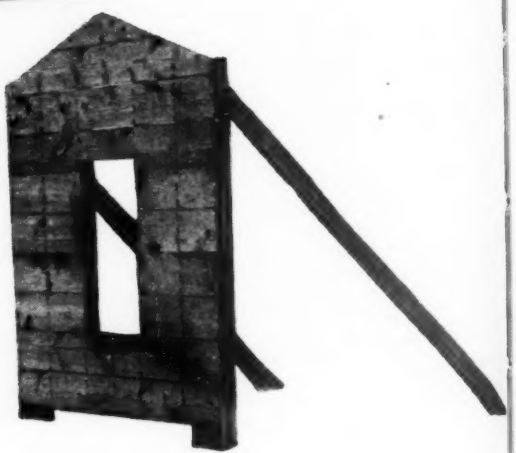
—JOHN SCOFIELD ◆ ◆ ◆

MARKSMANSHIP and the U.S. ARMY









Is a doctrine of aimless fire robbing our army of its potential as a fighting force?

BY PAUL CARDINAL

Students in officer refresher course 4 practice on the 1,000-inch range at Fort Benning, Georgia

Here is the proof that the M1 is effective if the man is. Master Sgt. Huntley fired 40 rounds in 52 seconds to make the 1,000-inch target shown on the right

THE THEORY THAT America is a nation of riflemen is taking a beating in Korea. If you can believe the statements of infantry officers returned from Far Eastern combat, the United States Army has lost the art of marksmanship. American soldiers are not getting the kind of training they need to protect themselves in battle—much less to realize their full potential against an enemy as determined and as numerous as the Chinese communists. From a doctrine of aimed fire, the Army's riflemen have been swung to one of "aimless" fire. The old pride in being a first-class marksman is a thing of the past.

How has this worked out in Korea? Army camps are full of officers who have just returned from combat in the Far East. I talked to some of them about aimed fire and the training of our troops. I don't know if they were afraid to talk for publication, but I had a difficult time getting any opinions at all. They did agree, however, that the American infantryman is poorly trained with his primary weapon—the rifle.

Here are their comments as I wrote them:

"The average rifleman is not well trained, and will not fire in combat."

"The rifleman doesn't fire his weapon enough in training to gain confidence in it."

"He's afraid to fire because he will draw fire."

"Good shooting is the exception."

"Riflemen will not change sights in combat."

"The rifle company depends too much on supporting weapons and forgets the fire power it has in its own hands."

"The men just won't fire."

And again and again, " They are afraid to fire because they will draw fire."

What is the moral of these observations? Where is your firepower if your soldiers won't shoot!

As absurd as it sounds, the value to the soldier of individual marksmanship is a controversial subject among infantry officers of the present-day Army! Many of them think that the time now spent in teaching soldiers correct shooting techniques is wasted. An Army captain, writing in the October 1950 "Infantry School Quarterly," has this to say: "To spend monotonous hours in position exercises, dry . . . firing, sling adjustment, and triangulation in preparation for record fire is placing the emphasis on the wrong syllable. This type of training also serves to ingrain habits into each man which (are) unrealistic and rigid, and this approach does not lend itself to the proper use of a weapon in combat."

The man who said that is a company commander responsible for the teaching of marksmanship to his men. Thousands of Army officers think the same way.

To justify their arguments, these proponents of aimless fire point out that in present-day warfare the soldier in combat rarely sees his adversary. He fires on *suspected* enemy locations—which might be hedge-rows, wooded areas, doorways, or windows. With this in mind, they argue, all you need is an infantryman who can hit the general area of a suspected target. This will pin the enemy down with a broad base of fire and let you maneuver other men in to overrun the spot. Proponents of this school of thought claim the entire action can take place without the presence of one qualified rifleman.

This type of thinking has strong advocates throughout the Army's command. The idea of massed fire regardless of accuracy became so pronounced that in June, 1950, a directive was issued limiting preliminary training with the M-1 rifle to forty hours for the entire basic training period of thirteen weeks. All firing on the familiar known-distance range was eliminated and the recruit went from the 1,000-inch range to the 'transition' range. This transition range is supposed to simulate firing from battle positions on surprise targets. As it is handled today, only an idiot would be surprised. I had never seen a transition range until I visited Fort Benning, Georgia, recently. I knew immediately where the targets would come up simply by picking out the high mounds before me.

Despite this gloomy picture, there are indications that the pendulum of Army thought is swinging the other way. Training programs are being changed to meet these deficiencies. The army recruit now gets sixty hours of M-1 training during his thirteen weeks of basic training. He also practices and fires for record on known-distance ranges. It won't be long before the sixty hours training with the M-1 is increased to seventy-eight. But contrast this with one hundred and fifty hours allotted the Marine rookie for learning the same thing!

What has happened to the art of marksmanship in the United States Army? Here are my conclusions after many hours of conversation. First, the old incentive for marksmanship prowess has been lost. Before World War II the professional soldier took pride in his shooting ability. He earned extra privileges and got more money in his pay envelope. Today that is no longer true. The 'bolo' and the expert rifleman walk side by side, with no special recognition for the latter. The pride of accomplishment has been taken away.

Similarly, the pre-war officer felt it his duty to qualify as many of his men as possible. That is no longer true. Certainly there can be no doubt that the expansion of our armed forces necessitated by World War II forced it to lower its standards. But after the conflict no concerted effort was made to bring those standards up again.

To make matters worse, all of us, army leaders included, fell for the propaganda that the era of atomic and push-button warfare had arrived. The well-trained infantryman was no longer the king-pin of the Army. Volume of fire was the all-important thing. The energies of the Army were turned to a demand for automatic rifles, rocket guns, recoilless weapons and atom bombs. Then in June 1950 came the awakening. The infantryman in Korea still had to take and hold ground. The atomic bomb could wait.

In the meantime, respect for the well-aimed shot from a lonely M-1 rifle was gone. Infantry platoon leaders were spoiled with the promise of supporting fire from new, all-powerful weapons. They forgot the fire-power they held in their own hands and did not bother to train it properly. Higher headquarters helped by cutting training time with the M-1 rifle to the bone.

Here's another for the book. According to the Army table of equipment for an infantry division, each rifle squad is issued one sniper rifle. But Army training schedules provide no instruction for snipers. Each Army squad ends up with a piece of equipment that no one can use. The sniper rifle has a telescopic sight, though no soldier or officer receives any training in the use of this complicated gadget.

As some officers point out, if a soldier were properly trained with this accurate, scope-sighted rifle, it is not too far fetched to assume that he might account for the death of one enemy soldier each day. That would amount to 189 enemy dead during each 24-hour period in any outfit facing one American division. In the course of a month, 5,670, or roughly 50 percent of a Chinese infantry division would be casualties. There is not a fighting outfit in the world which can take that type of beating over such a period and remain a first-rate combat unit.

To see rifle training in action, I went to Fort Benning, Georgia—fountainhead of infantry training for the U. S. Army. They agreed to let me go through a marksmanship course with a group of recently-recalled reserve officers. After their four-week course (sixteen hours for marksmanship) they join units as instructors. After that? Korea, perhaps.

My re-introduction to a Benning open-air classroom was with the 180 company-grade officers assigned to refresher course 4. As I rode out to the M-1 rifle instruction area with Lieutenant Colonel Taylor, Benning's chief smallarms instructor, my mind flashed back almost nine years. It didn't seem possible that almost a decade had passed since I had attended the Infantry School as a member of officer candidate class 79.

We found that Major Warren P. Davis was the instructor in charge of the first session. Davis is one of the most competent teachers at Benning. A combat veteran, he is the holder of the Silver and Bronze Stars and Combat Infantry badge. His shooting background goes back to 1929, when he attended Camp Perry as an NRA junior. At Maryland University he was on the rifle team.

The class assembled at eight o'clock. Davis went into high gear immediately. He and his assistants had but four hours to run through mechanical training, use of the sling, positions, effect of the wind, sight setting and changes, and zeroing.

Mechanical training was cleaned up in ten minutes. Next came the use of the sling. Its value and use was explained by Davis and demonstrated by two assistant instructors. All shooting positions were covered.

Before the student officers went on the line to practice sling adjustment, the class had a ten minute break. I had noticed during the fifty minutes of instruction that not one pencil or notebook was in evidence. I commented on the fact, as I remembered writing my head off during classes. I was informed that officers in a refresher course were not required to take examinations. At the end of the break, the students formed in two long lines down the field. The officers teamed up in twos, one coaching, the other shooting. Prone was the first position practiced. I wandered down the line to watch the fun. (Bear in mind that the majority of these officers had already been through enlisted basic training and the 13-week wartime OCS grind.)

This is what I saw. The students were awkward and hesitant about getting into position. Obviously, from the action on the field, they had but a vague idea of a correct prone position. Stopping to watch one pair of officers grouped as coach and shooter, I saw the coach work three or four minutes getting his shooter properly set. When the coach

New United States Army Rifle?

Here is the first photograph released for publication of the Army's T-20 rifle. Still in the experimental stage, it nonetheless offers a preview of what the new Army rifle may be like. Main difference between T-20 and M1 is that the new rifle can be switched from full- to semiautomatic by turning lever on right side. Note 20-round clips, muzzle brake, and new sight. Cyclic rate of T-20 is 700-800 rounds per minute. If a version of this rifle is adopted, it probably will be lighter, have a cyclic rate of about 500 rounds per minute.

★ **During transition-range training, targets are raised from behind mounds like these, at "unknown" distances. Actually, mounds are easy to spot**

★ **Infantry rifle training would be perfect as it is—if there were enough of it! At Benning, training is supervised by Lt. Col. Moore (left) and Lt. Col. Milton Taylor, both of the weapons department of the Infantry School**

stepped back, satisfied with his work, the shooter's sling was not only loose, but turned in the wrong direction and cutting into his hand. The two were finally corrected when an Infantry School instructor arrived on the spot. I saw error after glaring error go undetected until a school instructor arrived at the shooting point.

At the break, I talked to members of the class. More than eighty percent had been called back to active duty after four to five years as civilians. Most of them had not been near a firearm in that time.

I followed the officers of refresher class 4 through their ~~entire M-1 training~~ course. I watched them shoot. I inspected their targets. Most of them looked as if they had been peppered with buckshot. Even a fair target was a rarity. The student officers, through lack of experience, had no standard by which to judge good shooting yet these men would soon be responsible for teaching rifle shooting in units of freshly-drafted men!

I asked if the class was unusual. No, it was not . . . except for one thing. These men would largely be assigned as instructors. Most of classes 1, 2, and 3 had been sent directly to Korea.

Apparently the Army is making little attempt to build up a corps of instructors and keep it intact. Consequently, the Infantry School has trouble getting instructors for its own staff. Officers and soldiers are assigned regardless of qualifications. Usually the men have little if any shooting background and have to be taught and coached before they are turned loose on classes.

I asked Colonel Taylor how the NRA fitted into this picture. Was the Infantry School interested in trained marksmen? In NRA members? Yes, he told me. When an NRA member comes through Benning, he is apt to be picked out and assigned as an instructor in weapons training. Smallarms know-how is put to work at Benning whenever possible. But that is not the Army. What happens to qualified smallarms men elsewhere in the Army's maze of jobs is anyone's guess.

For the NRA basic smallarms training program, the staff at Benning has nothing but praise. They consider the hours that any future recruit spends in the NRA schools receiving instruction as so much to the good over and above the hours the army now gives to basic training with the M-1 rifle.

The officers of the Weapons Group at Benning are not only an efficient group, but they think realistically. They realize that the army is training for combat. Today's infantryman has to master more weapons than ever before. In addition to the new recoilless weapons there are tank weapons, antitank, and the like. The Benning group also realizes that the bullseyes and silhouette targets a man sees on the range are unreal as far as combat conditions are concerned. They maintain, however, that if a man learns to master the M-1 correctly on a range, the confidence he gains will enable him to shoot *anywhere*, under *any* conditions. They also maintain that if a man is given enough time with his basic weapon—the rifle—it will be that much easier to teach him how to shoot supporting weapons.

Colonel George A. Milliner, who directs all weapons training at the Infantry School, has this to say about M-1 training: "We are interested in bettering marksmanship in the Army and throughout the civilian reserve. We believe that the good rifle marksman will not only be a better carbine or pistol shot, but will certainly be a better recoilless-rifle gunner, rocket-launcher gunner, machine gunner, or tank gunner. The same principles apply to these weapons as to the M-1 —aim, hold, trigger squeeze.

"We believe that M-1 rifle training is basic. It lays the groundwork for training with every other weapon.

"The guiding motive in our weapons instruction is emphasis on those details which improve marksmanship—and as we at the school or throughout *(Continued on page 19)*

Legislative BULLETIN

A MONTHLY REPORT OF CURRENT LEGISLATION

BECAUSE MOST of the state legislatures which met in regular session early this year have completed their work and returned home, this bulletin will be the last detailed roundup of pending legislation, although the RIFLEMAN will continue, as long as necessary, to report action on individual bills of special importance.

If your state is one in which the legislative body is still meeting, study this bulletin carefully for any bill that can affect your right to own a personal weapon and use it for sport, home protection, and national security.

Not all the bills reported here are necessarily bad, but note how many well-intended proposals tend to chip away, a little at a time, at time honored rights and privileges. Looked at singly, and in the light of one good cause or another, these proposals may seem to call for small sacrifices. Looked at in the aggregate, they may easily spell the end of satisfaction and pleasure of owning and using guns; eventually the end of our legal right to do so.

California: Assembly bill 1489, reported in March, would amend Section 11 of the Deadly Weapons Control Law to provide a waiting period of seventy-two hours between purchase and delivery of a pistol or revolver. *Action:* Referred to Judiciary Committee.

Assembly bill 1490, reported in April, would require fingerprints of each applicant for a license to carry a pistol. *Action:* Reported favorably in House.

Assembly bill 2046, reported in April, would prohibit possession of loaded rifle or shotgun in any vehicle on any public road. A rifle or shotgun with cartridge in magazine but not in barrel would not be deemed loaded. *Action:* Passed in Assembly.

Assembly bill 2047, reported last month, would amend Fish and Game Code to provide that any person who kills or wounds another while hunting, regardless of circumstances, shall lose his hunting license for a period of five years. *Action:* Referred to Committee on Judiciary.

Assembly bill 2048, reported last month, would amend the Fish and Game Code to make the possession of a firearm while under the influence of intoxicating liquor, whether in the field or on a highway, prima facie evidence of illegal hunting while intoxicated. *Action:* Passed in Assembly.

Assembly bill 2049, reported last month, would amend the Fish and Game Code to make unlawful the use of any vehicle or conveyance in the taking of game. *Action:* Referred to Committee on Fish and Game.

Assembly bill 2051, reported last month, would amend the Fish and Game Code to prohibit the use of, or taking advantage of, any vehicle, trailer or conveyance, device or contrivance to spot or locate any game mammal. *Action:* Referred to Committee on Judiciary.

Assembly bill 2052, reported last month, would amend the Fish and Game Code to make it unlawful to cast the rays of any artificial light upon any game mammal while in possession of any firearm, even though such mammal is not killed, injured, or shot at. An exception is provided for headlights of a vehicle, operated on a highway, when there was no intent to locate such mammal. *Action:* Passed in Senate.

Assembly bill 2068, reported last month, would amend Fish and Game Code to prohibit the discharge while hunting of any firearm within 150 yards of any building, barn, or outbuilding without express permission of the owner or person in possession of the building. *Action:* Passed in Senate.

Assembly bill 3002, reported in April, would amend pistol licensing law to include air guns. *Action:* Referred to Committee on Judiciary.

Assembly bill 3078, reported in March, would amend Section 8 of the Deadly Weapons Control Law to require applicant for a license to carry a concealed firearm to be certified by three or more persons in his community who have known him for five or more years. *Action:* Referred to Judiciary Committee.

Assembly bill 3297, reported in March, would amend Section 8 to require an applicant for a license to prove he has not been convicted more than once for driving while intoxicated. *Action:* Referred to Judiciary Committee.

Senate bill 292, reported in March, would add to the Fish and Game code a new section to prohibit carrying or possession of any firearm, except a pistol or revolver, in or on any vehicle, unless unloaded in both magazine and barrel. *Action:* Referred to Senate Committee on Fish and Game.

Connecticut: Senate bill 274, reported in March, would prohibit the carrying of loaded firearms in a motor vehicle. *Action:* None reported.

District of Columbia: Federal House bill HR 1042 (now HR 3586), reported in March, would amend the District of Columbia firearms law to require a police permit to purchase a pistol. *Action:* Referred to House Committee on the District of Columbia.

Delaware: House bill 371, by Quigley, would make it a misdemeanor to discharge an air rifle in any residential area of the state outside the limits of an incorporated city or town. *Action:* Passed in House.

Illinois: Senate bill 69 (House 111), reported in April, would require license to carry pistol or revolver openly or concealed. Provides for target shooter's license for pistols having barrels at least six inches in length. *Action:* Reported unfavorably in House.

House bill 432 (Senate 404), reported last month, contains features of NRA suggested state pistol act. Prohibits sale to or possession of pistols by person convicted of crime of violence. Provides severe penalties for violation. *Action:* Referred to House Judiciary Committee.

Maine: House bill 1478, reported in April, would prohibit possession of any rifle, shotgun or pistol, with barrel over five inches, loaded or with cartridge in the magazine, in or on any motor vehicle. *Action:* Passed in House.

Maryland: House bill 395, reported in April, would prohibit the discharge by any minor of a .22 rifle in Anne Arundel County. *Action:* Vetoed by Governor.

Massachusetts: House bill 11, reported in March, would provide a fine or prison term for anyone using a firearm in a careless or negligent manner so as to cause death or bodily injury to another or damage to property or livestock. *Action:* Substituted by H 2328, passed in House and reported favorably in Senate.

House bill 466, reported in March, would attempt to control the misuse of air guns and sales to minor children. *Action:* Amended to apply only to bean blowers and passed.

House bill 2225 (substituted for 1885 reported in March) would prohibit the sale and discharge of air rifles. *Action:* Killed.

New Hampshire: House bill 283, reported in April, would prohibit discharge of any firearm within 200 yards of a building. *Action:* Killed.

Ohio: House bill 76, reported in March, would prohibit the possession of loaded firearms in or on any vehicle while moving or standing on any public road. *Action:* Reported favorably in the House.

Pennsylvania: House bill 279, reported in April, would prohibit possession or use of any firearm or air rifle by any person under sixteen years of age. *Action:* Referred to Judiciary Committee.

House bill 306, reported in March, requires registration of all firearms with heads of police. *Action:* Killed.

House bill 335, reported in April, would increase from fifteen cents to fifty cents the fee required to register a pistol in order to carry same while hunting, fishing, or training dogs. *Action:* Referred to Judiciary Committee.

House bill 384, reported in April, would prohibit possession or use of any air rifle by any person under sixteen years of age. *Action:* Reported unfavorably by Committee.

House bill 503, reported in April, would prohibit manufacture and sale of any air rifle in the Commonwealth of Pennsylvania. *Action:* Referred to Judiciary Committee.

House bill 504, reported in April, would make it a summary offense to discharge an air rifle, or to sell or give such guns to persons under sixteen years of age, or to permit their use by persons under sixteen years of age. *Action:* Referred to Judiciary Committee.

House bill 527, reported in April, would prohibit the sale or use of air rifles by any persons except on a bonded ($500) and licensed target range. *Action:* Reported unfavorably and recommitted.

House bill 582, reported in April, would prohibit the sale or discharge of any Flobert rifle or air rifle anywhere in the Commonwealth of Pennsylvania. *Action:* Referred to Judiciary Committee.

House bill 586, reported in April, would require the registration at a registration office of all firearms and air rifles owned by or available to any person under 18 years of age. Any person using or possessing any such firearm or air rifle without knowledge of parent or guardian declared to be juvenile delinquent. *Action:* Referred to Judiciary Committee.

House bill 1038, by Leonard and Robinson, to regulate use of air guns and license dealers is NRA suggested bill. *Action:* Referred to Law and Order Committee.

Senate bill 322, reported in April, would require an applicant for a firearms license to submit fingerprints and would increase from two days to seven days the waiting period for investigation of applicants. *Action:* Referred to General Judiciary Committee.

Rhode Island: House bill 598, reported in March, would amend Rhode Island dangerous weapons law to include dart guns using wooden projectiles tipped with rubber. *Action:* Legislature adjourned.

Texas: House bill 280, reported in April, would define air rifle as any weapon that discharges any solid object by any means, would prohibit discharge within the corporate limits of any city in the state. *Action:* Amended to remove objections and passed in Senate.

Marksmanship and the U. S. Army

(Continued from page 17)

the Army put them across we feel that we are doing something to meet the constant cry for increased fire-power for our modern infantry.

"Furthermore, we feel that ability to fire the M-1 forms the basis of the fighting confidence of our infantry—confidence in our weapons, which leads to the kind of confidence we must have in battle."

Accepting the sound reasoning of Colonel Milliner's ideas, it not only gives the Army expert riflemen, but better marksmen with supporting weapons. The groundwork laid down with complete training in the use of the M-1 rifle cuts down the time necessary to teach a man to become an expert with any other weapon. A successful coach of a basketball team would not dream of exposing his players to the intricacies of team play with its varied shots without first grinding into him the basic principles. The same theory applies to all teaching—even to the making of an expert rifleman.

I think I am not back-tracking when I say that there is nothing fundamentally wrong with the concept of marksmanship training in the Army today. The Army knows how to teach men to shoot straight. It has potential instructors, if it will train them. The fault lies in not having pushed marksmanship. It has not indoctrinated its leaders with the value of marksmanship. Instead, from 1946 to 1950, it allowed a controversy to arise within its top ranks that questioned everything but mass fire. The disciples of "mass and mediocrity" robbed our Army of its straight-shooting efficiency. Because of their work, our soldiers are afraid to fire in combat because they fear retaliation.

The situation must be corrected. More hours must be devoted to basic marksmanship instruction. Thousands of officers and non-commissioned officers must again be sold on the value of accurate shooting in combat. It can be done by giving the officers who believe in quality fire a freer hand and more time. Then we will send into combat soldiers who want to shoot . . . who have confidence that they can cut down anything with a well-aimed shot.

I'd like to leave one final thought with you.

A United States Army Infantry division has 18,804 men. Of these, 1,944 are riflemen. They are the front line. Their only weapon is the rifle. The remaining 16,860 men have as their sole job the support of those riflemen in taking and holding ground. But by the very nature of their training, today's riflemen (to use the strict sense of the word) are second-raters. It is difficult to understand how our army can build a team in which eight men are given over to the support of one second-rater! ◆ ◆ ◆

SCHOOL'S OUT

"No more teachers, no more books, no more. . ." will be yelled by thousands of kids, youngsters, and high-schoolers next month. What to do with all of the suddenly released energy? Will your son and his chum take down the trusty air rifle and invade the near-by vacant lot, alley, park, or woods?

Two boys with an air rifle can be two boys on their way to make life miserable for cats, chickens, birds, bottles, and neighbors—to say nothing of the parents. They may be the cause of a regrettable accident. Two boys with a spring-type air rifle are two-thirds of an NRA Junior Patrol. Even one boy with his air rifle may earn medals, but it is more fun to have companions and compete among themselves.

Only fifteen feet in a basement, on a back porch, in the garage, or out in the shade of the lawn is needed to set up a range. Imagine your own son or daughter leaving the firing line, standing his air rifle in an improvised gun rack, and rushing to the butts for his target so he may receive the praise and constructive help you as instructor give him. He needs your adult good sense to guide him in handling his air rifle safely. The NRA chartered Junior Patrol may know you respectfully and affectionately as "Pop" or "Dad" and soon you will be awarding one or more of the six colorful shoulder patches or fifteen medals and bars earned by your youngsters who want so earnestly to shoot at something. Paper targets, a supervised range using cardboard cartons for a safe backstop is the answer.

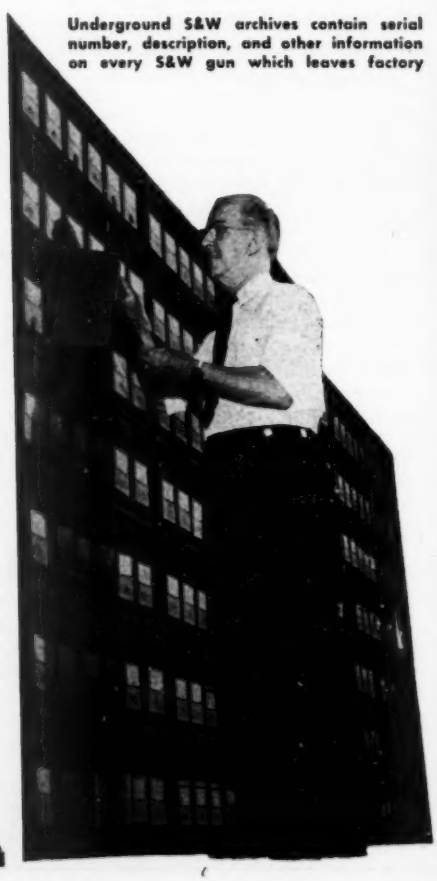
Give kids a chance to shoot during the summer vacation. Write your National Rifle Association for all the dope on air rifle shooting.

In underground testing range, two workmen fire S&W revolvers through portholes at targets while Albert Cooley adjusts sights

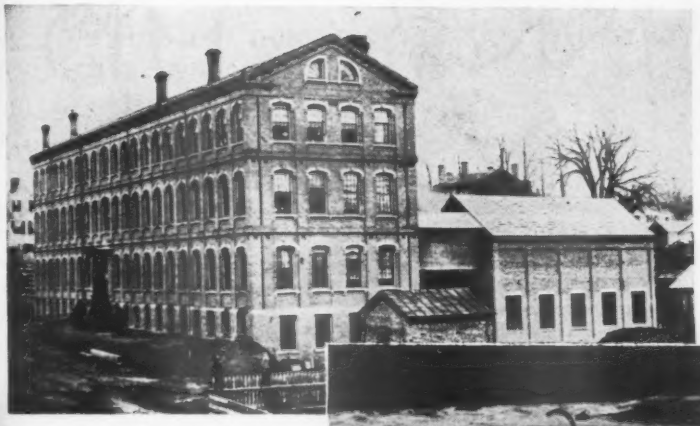
With electric truck, workman moves finished gun components from blueing to hard-fitting department through one of tunnels which lattice underground section of the new S&W underground factory

Machines in soft-fitting department on ground floor can be moved underground easily. Light walls will blow outward at bomb blast instead of inward

Underground S&W archives contain serial number, description, and other information on every S&W gun which leaves factory



S&W president Carl R. Hellstrom examines gauge with Joseph W. Norman, director of S&W experimental laboratory



Used until ten months ago, early Smith & Wesson plant (above) was built in 1863. New plant (right) is last word in industrial design

Smith & Wesson *Plant*

Photographs by Sid Latham

A NEW FACTORY, designed and engineered to minimize the effects of any kind of aerial bombing, has recently gone into production about four miles from the business center of Springfield, Massachusetts. Even though the factory contains forty thousand cubic yards of reinforced concrete and has a floor space of three hundred fifty thousand square feet, it literally floats. It is built on reclaimed swamp land with skin-friction piling for support, which, in case of bombing, would minimize the effect of explosion by absorbing shock waves. Walls are constructed with special footings so that the downward and inward effects of a bomb blast would offset each other.

The underground area of the factory is large enough so that all manufacturing operations can be moved below ground within several days. Subsurface tunnels and chambers are ventilated by a blower system and equipped with airtight bulkheads so that any one section could be completely shut off.

Already the new plant has shown a twenty-five percent increase in efficiency. If war comes, it will be one of the nation's industrial strongholds.

THE QUESTION of reloading costs and times often arises, especially during heated discussions at shooting clubs. Being a curious man it seemed logical to make a reasonably complete study of reloading costs and times. There is no complete information available in the various handbooks on reloading; such books merely cover the component costs. The following data naturally apply only to the same or similar sets of equipment, should anyone desire to make a comparison.

The study was run while making a quantity of 500 reloads. The costs, exclusive of labor, are as follows:

	Cost
1) *Equipment (estimated useful life of 100,000 reloads)*	
Hollywood press with dies	$37.50
Cramer Lubri-Sizer	17.50
Redding powder scales	11.95
Belding and Mull powder charger	12.50
Cramer #26 bullet mold	10.50
Lead pot and dipper	2.25
Total cost	$92.20
Equipment cost per 500 reloads	.46
2) *Components*	
Powder (2.8 grs. of Bullseye, $2.15/11 oz.)	.63
Lead & tin (44/lb.—$.28/lb.)	3.18
Lubricant (1/3 stick at $.50/stick)	.17
Primers ($6.75 per 1000)	3.38
Cases ($5.00 per 1000 once used—good for average of 25 reloads)	.10
Component cost per 500 reloads	$7.46
3) Total estimated cost for 500 reloads	$7.92
Estimated cost per reload	$ .0158

The times for the following reloading operations (also based on reloading 500 empties) are more involved, and will vary somewhat depending on how much time each loader deems necessary. In each case the more practical and efficient methods were determined according to the rules of motion economy and reloading requirements. The times are tabulated below, with descriptions of the operations to follow.

Operation	*Time (in Minutes)*
1) Set-up to cast bullets	19.50
2) Cast bullets	87.25
3) Inspect bullets and stack in box	27.50
4) Set-up lubri-sizer	1.14
5) Lubri-size bullets and stack in box	49.10
6) Set-up press	1.45
7) Clean and lubricate cases	29.20
8) Size and reprime cases	103.00
9) Replace sizing die with seating die	.73
10) Set-up powder charger	3.88
11) Rack up cases (50 at a time)	7.50
12) Throw powder charges and inspect	35.20
13) Start bullets in cases by hand	28.60
14) Seat and crimp bullets in cases	25.50
15) Stack cartridges in box	17.35
Total minutes for 500 reloads	436.90
Minutes labor per reload	.8738

Operation 1: Consists of melting approximately fifteen pounds of lead, heating the mold, and casting bullets until good ones come consistently. In order to reduce the melting time of the lead a six-inch elbow of stove pipe is placed over the pot to concentrate the heat. A small piece of beeswax is used as a fluxing agent.

Operation 2: Consists of the time spent casting bullets from the time good ones start to come until enough have been cast to leave 500 good ones after inspection. The above speed is maintained with one mold by holding the mold under the water faucet when it becomes too hot. Bullets are left in the cavities when cooling it thusly in order to prevent a trapping of water therein, and possibly causing an eruption of hot lead when the next bullets are cast. All conditions such as mold and metal temperatures, metal mixtures, clean mold, etc., must be correct to maintain speed.

Operation 3: After molding and before sizing, the bullets are inspected for defects and stacked in a cigar box. The rejected bullets are tossed into the lead pot. Rejections run about three percent.

Operation 4: The pressure is adjusted on the lubri-sizer. Time was taken into account for adding another stick of lubricant (Ipco collodial graphite solid stick) about every 1500 bullets lubri-sized.

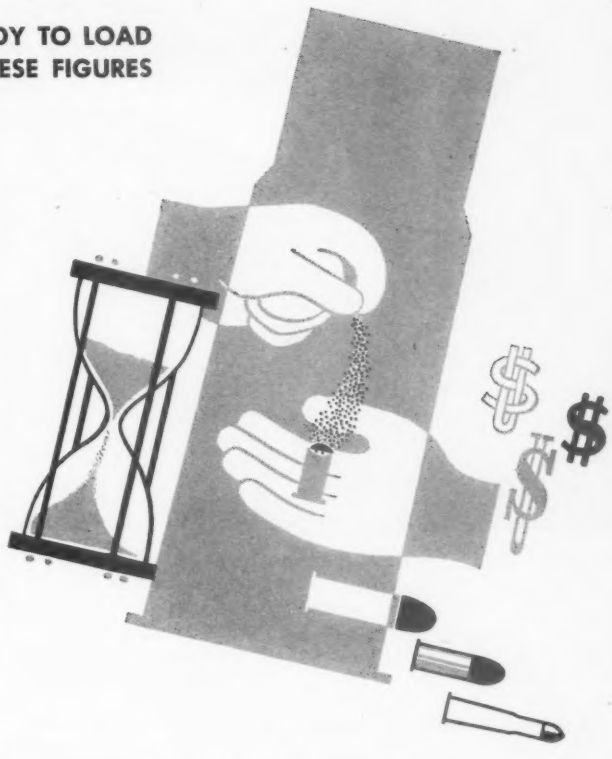
Operation 5: The bullets are lubricated, sized, and stacked in a box for future use. My usual practice is to lubri-size them all and to use them as needed. There is apparently no harmful effect in so doing according to my observations.

Operation 6: After removing the dust cover from the press, the seating die is replaced by the sizing die and the primer seater is added. In case another caliber set of dies is used previously, add another .65 minutes to change the base holder.

RELOADING *Time and Cost...*

By Donald P. Fox

IF YOU DON'T THINK IT'S CHEAP AND SPEEDY TO LOAD YOUR OWN AMMUNITION, LOOK OVER THESE FIGURES



Operation 7: All of my cases, whether nickeled or brass, are wiped clean and lubricated with a light coat of grease. This tends to eliminate loading the die surfaces with metal, thereby eliminating scoring of the cases and wearing of the die.

Operation 8: The cases are decapped, sized, the primer pockets cleaned and reprimed. Cleaning the primer pockets removes the hard deposit which can cause faulty ignition by shifting position at a later date and partially or totally covering the flash hold. Most of my cases are Peters, but all makes are used. In every case Remington No. 1¼ primers are used. There has been no noticeable difference in ignition, pressure, or accuracy in some 4000 rounds.

Operation 9: The sizing die is replaced with the seating die, and the primer seater is removed to prevent a possible discharge during the seating operation.

Operation 10: The powder charger is filled, the charge cup set, and several charges thrown. The charges are weighed, and the charge cup adjusted until the desired weight of powder is thrown uniformly. Weighing is then dispensed with, except for a check weighing about every 100 rounds.

Operation 11: Fifty cases are placed in a rack for the convenience of loading and inspecting.

Operation 12: The powder charges are thrown and dropped into the case through a glass funnel. To prevent missing a case or double charging a case, all the cases are tipped in the same direction. Upon throwing the charge, the case is tipped in the opposite direction upon withdrawing the funnel. Inspection is easily accomplished by holding the rack under the light and comparing the powder levels. Double charges readily show up when the levels are compared in this manner.

Operation 13: The bullets are taken from the box and started into the shells by hand to insure proper seating and to eliminate deformation of the bullet bases.

Operation 14: The bullets are seated and, in my case, the cases crimped in the crimping groove of the bullet.

Operation 15: The finished cartridges are wiped clean of any excess grease and stacked in a suitable box. They are stacked to reduce to a minimum any deformation of the bullet noses, and also because they look better in orderly rows.

Of course, any of the above operations can be modified or eliminated to suit the reloaders tastes. The use of different equipment can quite materially effect the times taken, and, in many cases, the methods of procedure.

The following is a summation of the foregoing data showing the estimated savings. For a means of figuring labor cost I have arbitrarily chosen $1.50 per hour.

Unit material costs	$ .0158	$ .0158
Unit labor costs	.0218	—
	.0376	.0158
Unit reload costs		
Unit factory cost	$ .0680	$ .0680
Unit reload costs	.0376	.0158
Savings per reload	.0304	.0521
Savings per 500	$ 15.20	$ 26.10

It is of course apparent that the material costs can be reduced by those who obtain their components either cheaper or for nothing, and by those who have less expensive equipment. Since the material costs are fairly constant, about the only way to reduce the total costs is to reduce the time taken on the various operations. When working to reduce the time necessary to do an operation, it is well to bear in mind that your safety when shooting the reloads is of prime importance, therefore sufficient time should be allowed to insure properly assembled reloads. ◆ ◆ ◆

U. S. Fish & Wildlife

BIG-GAME ANIM

The far-ranging coyote, thoug ly b tremendous sport to the rifle ally waiting are required ng sl

the coyote

By John Moyer, Staff Associate
Chicago Natural History Museum

ALTHOUGH definitely not a big-game animal, the coyote has been associated with game animals and the North American continent ever since its discovery. The coyote is ever present in the minds of Westerners, and figures so prominently in the life and writings of the West that the animal is important enough to be included in this series. In some respects the coyote and his song typify the West.

The coyote (*Canis latrans*) belongs to the family of wild dogs in which wolves, foxes, and all domestic dogs are closely related. It has several common names which are used locally throughout its extensive range: brush wolf, prairie wolf, little wolf, and others. The name coyote is Mexican and many shortened versions of it are heard throughout the Western states.

The range and numbers of the coyote, strange as it may seem to us today, increased tremendously during the years 1932-1946, according to the United States Fish and Wildlife Service. In the past four years their number has decreased roughly fifty percent, due to the efforts of the Fish and Wildlife Service in cooperation with state agencies. The range extends from Costa Rica north, through all of Mexico, western and central North America, from the Pacific States to eastern Texas, Missouri, western Ohio, into Michigan and eastern Ontario and Keewatin. The coyote has been recorded in states farther east, but these records are somewhat doubtful as individual animals may have been a pet captured when young and raised like a dog, or one that escaped from a zoo. Coyotes are nearly always thought of as living in open country and upon the prairies of the West, but many have been observed and caught in traps living high in the mountains at and above timberline.

The coyote is about half as large as the wolf, but he is not at all the killer or the vicious animal the wolf is. Larger than a fox and having the appearance of a collie dog, the coyote is shorter in body, and its legs are slender and more in proportion to the body; the face is long and generally matted, colored gray or yellowish-brown with the underparts a dirty white and the tail black at the tip. The weight varies greatly among different animals, averaging from twenty to forty pounds, with the females much smaller in both size and weight. Many males have been reported larger and heavier.

Male coyotes have many habits which are quite different from other wild animals. He is the perfect mate among the animal world, possibly even surpassing man in some ways! Coyotes, as a rule, mate for life, but should

(Continued on page 26)

...MALS of North America

...hough...ly big game, affords
...e rifle...ally hours of stalking and
...ired ...ng shot at an elusive animal

Outwitting the Coyote

By Milton P. McQueary

THERE WAS A TIME in the West when a man who carried a rifle with him wherever he went could get shots at a number of coyotes in the course of a year without doing more than watching for them as he went about his regular business, whether as cowboy riding the range on horseback or as a traveling salesman driving the highways. Especially was this true in the fall of the year when the new pup crop began coming out in the open where they could be seen.

Many a rancher and traveller was able to kill enough of these fur-bearing predators to pay for the gas used on auto trips through the range country. The pups, never having encountered man before, were apt to stand, either in the road or close alongside it, so that most anyone, regardless of what kind of rifle he carried, had a good chance of killing them. In spite of the fact that the average man couldn't hit one of the little dogs if he was more than two hundred yards away, it might have been hard to convince him the coyote was a wily varmint or a difficult rifle target.

But those of us who make a business of shooting coyotes, and really go after them to kill all that we can, are convinced that they were the sharpest, slyest, most difficult animal to stalk—as well as the hardest to hit with a rifle—of anything on four legs. Now that the poisoning campaign of the United States Fish and Wildlife Service has reduced the coyote tremendously over most of the range country, we have had no reason to change our mind.

What we have had to change is our methods of hunting. We used to drive out to likely coyote country, leave the car and take off on foot, watching the country ahead carefully as we went along. Before walking up onto a ridge top or rise of ground, we would scan the terrain in sight beyond it with binoculars. Whenever we came to an extra good vantage point, we would sit down and watch everything in sight for fifteen minutes or so. (Incidentally, serious coyote hunting always calls for binoculars, as coyotes are just too small and well camouflaged to be seen very far with the naked eye.) This method usually resulted in seeing anywhere from one to six or eight coyotes in a day, depending on how luck was running.

Although the method worked OK ten or twenty years ago, things are different now. Possibly there are a few places yet where this system will work, but I couldn't tell you where they are. In the parts of Colorado, Wyoming, and Utah with which I am familiar, a man might hunt this way for a week without seeing a single coyote. So I shall describe the newer methods of finding and getting shots at coyotes, which have been developed by myself and my fellow coyote hunters. Of course, these tricks will work all the better where there are still lots of 'ki-dogs'.

The first thing, of course, is to locate your coyote—and that is the hardest part of the job. My system is to take off through the coyote country in my jeep and not to leave it until I have located a coyote. I stop every mile or two, where I can leave the jeep more or less out of sight in a wash or in some high brush. Then I get up on a knoll or a rock pile or high ground nearby, and hide myself as best I can. Then comes the part that anyone and everyone might not be able to do—howl like a coy-

(Continued on page 27)

Though the coyote population is decreasing, there are still enough to offer sport to hunters of all ages

the coyote

(Continued from page 24)

one die or be killed they will nearly always mate again. Some reports state that coyotes have been known to mate with domestic dogs, as many hybrids have been killed. These animals are always found playing or hunting together in pairs and when the female is carrying the young and after the young are born, the male will work hard to keep her well supplied with food, while she is nursing the young. He also helps care for the young in many ways and stands guard over his family, even to the extent of drawing off dogs and men when they come close to the den.

Mating takes place in late January and February throughout most of their range, and the gestation period is approximately two months. After the animals have mated, a den is chosen. It can be a cave, a natural rock formation which gives shelter, or usually the case—a tunnel dug in the ground, or the enlarged den of a skunk, fox, or similar animal. No dirt is left on the inside, it being worked out into the open and piled at the entrance. The living quarters are bare of leaves, grass, or other material generally used by most animals to line or pad the den, and the entire burrow is kept clean at all times. These burrows often have branching tunnels and ventilation is brought in through the roof. The burrows vary in length from a few feet to twenty-five or thirty feet from the entrance to the rear of the den, and are always constructed in such a manner that they will not fill with water during rains.

A litter of young coyotes usually averages five or six, but there can be fifteen or twenty in a litter. A few days before the young are born, the male will leave the home den and take up residence nearby, as he will be a busy father for the next few months in getting enough food for his newly acquired family. At about six weeks of age the pups come out into the open and play about with one another and with the parents in much the same manner as puppies of domestic dogs. When the pups are about two months of age, the male returns to this home and starts the serious business of teaching his offspring to hunt for food and to keep from becoming food for other animals, also to stay out of reach of man, his dogs, and his guns. Young coyotes soon learn to hunt for themselves, since they have only until the fall of the year before leaving the comfort and safety of their home and parents to strike out on their own.

Young coyotes must find and establish a range of their own. To do this, they may have to travel several hundred miles away from their home den. Then danger threatens most, as they are inexperienced and often fall easy prey to enemies. Many die of hunger, or weakness brought on by hunger, because they are not able to cope with the rigors of hunting for food, especially in country in which winter snows come early.

Coyote's eating habits—that is, the varied menu they feed upon—remind one of a well-known domestic animal—the goat. Coyotes are considered carnivorous, but they are not strictly. It is a well-established fact that they take a heavy toll of domestic stock, especially sheep, and that they are more than unpopular among stockmen and farmers. Examinations of the stomach contents of a number of these animals have turned up many surprising items, such as rodents, birds, pieces of dried hide, small bones, fruits and grasses, fish, chickens, crawfish, snakes, porcupines, sheep, garbage, and other miscellaneous animals and articles. But this is not the limit of the coyote's food preferences. Carrion is an important food item of the coyote during the winter months, especially if snows are heavy in parts of his range. The animal's choice of food might be summed up by saying he will eat almost anything that can be chewed and swallowed.

Even though the enemies of the coyote are many, his race was on the increase until about four years ago, due principally to the extension of his range eastward; in spite of the fact that an estimate of over one-hundred thousand animals are taken each year throughout North America. His enemies, besides man, are wolves, mountain lion, the golden eagle. A few have died, interestingly enough, from encounters with porcupines. Coyotes are also subject to all the diseases of the dog family and are hosts to various kinds of parasites.

Coyotes do a great deal of good. They clean up carrion that might infect healthy game animals and domestic stock, and they kill off the sick, the weak, and old of our game animals, leaving only the strong and healthy to mate, which is as it should be. On the Western plains they keep down rodent population, such as prairie dog, that can ruin valuable land and afford a livelihood during the winter months to many who trap and hunt the animals for the bounty paid by some States and for the valuable pelt.

Coyote is a wary animal, sleeping in two- or three-minute snatches and then looking around for danger. Seldom are shots gotten under 100 yards

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Outwitting the Coyote

(Continued from page 25)

ote. Imitating a coyote's howl is difficult enough—I suppose a few would find it impossible—but I have never found any other way of locating them when they were few and far between. Of course, they won't *all* answer you, even at best, but if you are out early enough (from daylight to an hour after sun-up) you can nearly always find one in the mood to howl. In country where there are really lots of coyotes, they will howl most any time of day, but they will not howl during the summer when the weather is hot.

Once the author killed five coyotes in less than thirty seconds

An answer to a howl will serve to give a coyote's direction, but you can never be sure of the distance unless you can see him, which cannot be done more than half the time.

If you get an answer—and this is important—remain hidden and watch closely in the coyote's direction for he may come to investigate, sometimes from a mile or more away. If you see one coming, your actions will, as they say in the army, 'depend on the situation and the terrain'. In flat, open country, where the coyote has a good chance to see you, you can only sit tight and hope that he will approach close enough to offer a shot. You must have any wind or air currents in your favor or you are out of luck, as a coyote is sure to smell you before coming within range. If the ground is rough enough so that the coyote's out of sight part of the time, you can sometimes make a quick move to improve your position in relation to wind and terrain. If the wind is straight from the coyote to you, or nearly so, he will usually come directly toward you. If it is blowing crosswise or quartering toward him, he will veer off so as to intercept your scent as he approaches. If the wind is nearly or even slightly toward the coyote, you must move quickly to prevent him from smelling you before you can get a shot at him.

It goes without saying, of course, that you *must* keep out of sight of the coyote while making any move, or the jig is up. To help keep coyote from seeing you when hunting, a man should always wear neutral-colored clothing—tan, gray, or light brown—as it will make you at least twice as hard to see.

The shooting distance will depend on the caliber and condition of your rifle, as well as the kind of sights you have on it. If you have been successful at keeping out of sight while watching the coyote approach, you can often get quite close shots of a hundred yards or less.

When there are several coyotes and they haven't been shot at recently, you can probably make a multiple kill. When they haven't seen you, so that they are not sure where the first shot or two is coming from, the survivors won't likely run far before stopping to try to locate you. They nearly always stop on top of a knoll or ridge, and generally stand for about three or four seconds. During this interval you must get your sights on them and shoot, which can be done if you have been following them with your sights, and if you are shooting from a good position with a rest.

I have shot hundreds of coyotes that had stopped running for a quick look back, getting the shot off in that three or four seconds of time. In fact, I would rather try a three-second shot from a rest at a standing coyote at three hundred yards, than a running shot at one hundred. To insure always having a rest, I carry one with me. It is in the form of crossed sticks, made of hardwood ⅜ inch thick by ¾ inch wide and 32 inches long. These are held together about four inches from the upper ends by a ¼-inch bolt kept drawn up moderately tight. A strip of rubber about an inch wide is cemented or taped across the tips of the sticks, and the rifle barrel inserted under it, so that the sticks hang down your back as you walk along with the rifle over your shoulder and the rest in position. The forks of the rest should be wrapped with rubber tape to prevent the rifle forearm from sliding through them too easily. The bolt head should be taped to prevent it making any noise when stalking a coyote, as the rest must sometimes be held up parallel to the rifle when you are crawling up to a bush or a low ridge. The rest sticks can be of one piece for shooting from the sitting position only, or they may be hinged about ten inches from where they cross, so that they can be folded up to make a short rest for prone shooting. This is done by lapping the sticks for about three inches and bolting them with ¼-inch bolts equipped with wing nuts, so they may be tightened in either the folded or extended position. When shooting in the sitting position, the height of the rifle above the ground can be varied from about eighteen inches to about thirty inches by spreading or bringing together the legs of the rest.

Maybe a real good shot wouldn't need aid in supporting his rifle, but most of us will find that it gives a distinct advantage. I can kill at least twice as many coyotes by shooting with a rest as I can without one. But to get back to our hunting . . .

Sometimes you can see the coyotes when they answer and can keep an eye on them with your binoculars. If they don't come your way, you can plan a stalk after watching them long enough to see what they are up to. Coyotes spend most of the day lying down, so you usually won't have to watch

very long in the morning before they lie down. If the weather is very cold or windy (coyotes won't howl if it is windy), they may prowl around most all day, but when it is calm and warm they will soon get lazy and park themselves. Once they have lain down, they will usually stay down for three or four hours unless the weather changes, making it possible to plan and make a good stalk. You are surer of getting a good shot under these circumstances than any other. You can sneak up on a coyote when he is lying down napping, even in fairly flat country, with a little cover such as a good-sized bush or a small sand hill. Even though a coyote doesn't sleep more than two or three minutes at a time, you can time your moves so as to make them when he is asleep. Thus, if you have to move out in the open some of the time, you can watch from concealment until he has had a look around and then laid his head down. The wilder and more alert a coyote is, the oftener he will look around, but by watching him a while you can find out about how long he naps each time, and move accordingly. You must always be hidden and motionless when he has his look around. Once you are in shooting position, you can usually make him stand up for a shot by making some noise, such as clicking your tongue or slapping the ground with your hand.

Here is another trick you can try if you can't see the coyotes which answer your howl, and if they don't come to you. I carry with me what I call a rabbit whistle. It is a homemade affair made by splitting a round stick about ¾ inch thick and three inches long. Cut a groove lengthwise on the inside of each half so as to have a hole about ¼ inch across when the two pieces are taped back together. A strip of thin rubber is stretched across the hole between the two pieces of wood, and pulled just tight enough so that when you blow the whistle it sounds like the squalling of a rabbit.

Having figured out as best you can where the coyotes were that answered, you go there as fast as possible, and once in the general vicinity (if you haven't seen them) choose a place from which you can see all 'round while remaining fairly well hidden. Then blow the rabbit whistle. If you have gotten within the coyote's hearing, it will often produce good results. A single coyote will usually approach cautiously, veering off to get downwind, as he doesn't know quite what he is getting into. But two or three or more or them together will often run full tilt right at you, confident that they can take that rabbit away from whatever it is that has it. I have killed several coyotes which were running straight toward me as hard as they could at distances between twenty and thirty yards. I shot a couple at considerably less than that—one at twenty feet, and one at about fifteen feet.

I once called two to within six feet of me, but I didn't get a shot at them. There were four coyotes in the bunch,

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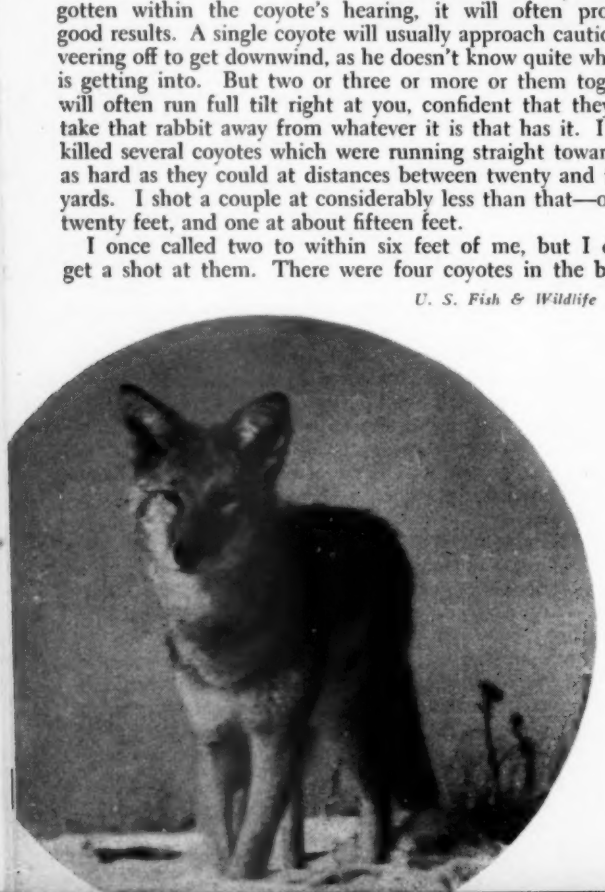


and I had gotten an answer from them when I howled, at a distance of about a mile. They were beyond a ridge top from me when they answered, and by the time I got up to where I could see them, they were all lying down on top of a little knoll about half a mile away. I looked over the country and decided I could make it to the top of another knoll which appeared to be around three hundred yards from them. I backed down out of sight and took a round-about route through gullies and behind hills, and made it up to my knoll

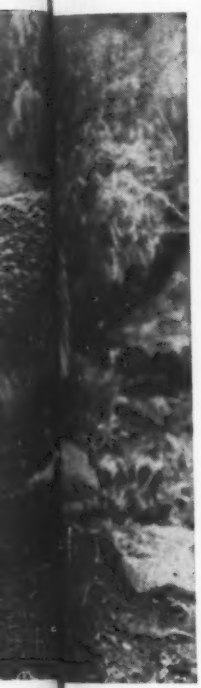
Though carnivorous, coyotes eat most anything. The number of small animals they kill for food is very large

in about fifteen minutes. As I eased up and peeked over the knoll, the coyotes were just getting up. They hadn't stayed put as long as they generally do under such circumstances, and I had barely gotten to where I could see them when they trotted out of sight, going away from me. I saw that quick action would be necessary in order to get a shot, so I ran up on top of the knoll and lay down in the short brush which just nicely concealed me. I folded my rest for prone shooting, and got set for a shot in their direction. Then I blew several loud squalls on the rabbit whistle. In a few seconds four coyote heads popped up into sight, and they stood there with just their heads showing, looking and listening. I didn't want to shoot at their heads as the distance was over three hundred yards, and I decided to try to get them closer.

I blew a plaintive squeak on the rabbit whistle, and they jumped into a hard run straight toward me. There was another knoll between them and me, and I thought they might stop when they came up on it. This would have made good shooting, as it was only about two hundred yards away. But they came over it like a herd of wild horses, and on down into the gully between, where they were out of sight. I was lying beside a small wash which led down into the gully in which they had disappeared, stretching my neck trying to see them without getting up off my gun, when I heard a noise at my left. I turned my head just in time to see the two lead coyotes leap up out of that wash beside me. They got a good look at me at the same instant, and saw that I

was too big to tackle, although I doubt if they saw for sure what I was. Anyway, they wheeled away and ran on behind me, down a wash on the other side of the knoll.

Being in the prone position, and not expecting the coyotes to show up where they did, I wasn't able to swing my rifle in time to get a shot at them. The two coyotes behind, seeing the leaders cut and run veered off and ran out about a hundred and fifty yards and stopped. By that time I had shifted position and was ready for them. I shot one, and the other ran on another hundred yards and stopped in some heavy brush. I could only see a strip of his side about four inches wide through the brush, and it took me a half second too long to steady down on it. Just as I pulled the trigger, I saw him jump, and he was gone when the bullet got there (we call this sort of mishap "jumping the gun," and it happens all too often in coyote hunting). I quickly turned around into position to shoot in the direction the first two coyotes had gone, but I couldn't see anything of them. Then one of them showed up running out of a gully about three hundred and fifty yards away. He stopped for a look back, and I stuck it on him and shot. I heard the bullet hit him, and he rolled out of sight in the gully.



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The most efficient job of calling and shooting I ever did resulted in my killing five coyotes in about thirty seconds. It happened in the sand dune country about twenty miles north of Delta, Utah. The country consists of alternating strips of large naked sand dunes, and lower sand hills covered with brush and weeds, with plenty of rabbits, mice and other small game. It was still good coyote country at that time, as an ordinary car could not be driven around in that sand, so no coyote trappers or poisoners had been in the area. I was able to get out in my jeep. I had spotted a coyote from a high hill early that morning, and after I saw him he didn't go far before he laid down. I was able to slip down through the sand dunes and crawl up within a hundred yards of him, and shoot him in his sleep. As the hides weren't worth anything, I only scalped the coyote and cut off their feet, to collect the Utah state bounty, and when I finished the job on that one, I climbed up on a sand dune and howled.

I got an answer from about a mile away, beyond a strip of naked sand dunes. It sounded like four or five coyotes, and after watching a while to make sure they weren't coming for me, I started for them. I got well into the bare sand, climbed up on the highest dune around there, and then set up another howl. If a coyote is going to answer you, he will do it within a minute after you quit howling (I usually give three or four long drawn-out howls at about fifteen or twenty-second intervals). It wasn't long until this bunch of coyotes started a big sing-song and yow-yow about half a mile away, at the near edge of the next strip of brush country. I watched with my glasses, and presently I saw one. Then another and another showed up, and they were coming my way, out into the bare sand. When they had all cleared the brush I could see there were five of them, all coming on a good swift trot.

The coyotes went behind a ridge of sand, and while they were out of sight I got ready for them. The dune I was on was a sharp ridge. I could lay on the back of it with only my head and shoulders, and my rifle, showing on the skyline. I folded up the legs of my rest and lay there watching the animals through the scope as they trotted toward me. They were in and out of sight as they moved among the dunes, but they were moving right along, and it wasn't long until two were looking at me from the top of a dune only two hundred yards away. But I didn't shoot. I wanted to let the other three get up there before I started anything. The wind was in my favor, and I knew that the closer they were when I fired, the more shots I would get.

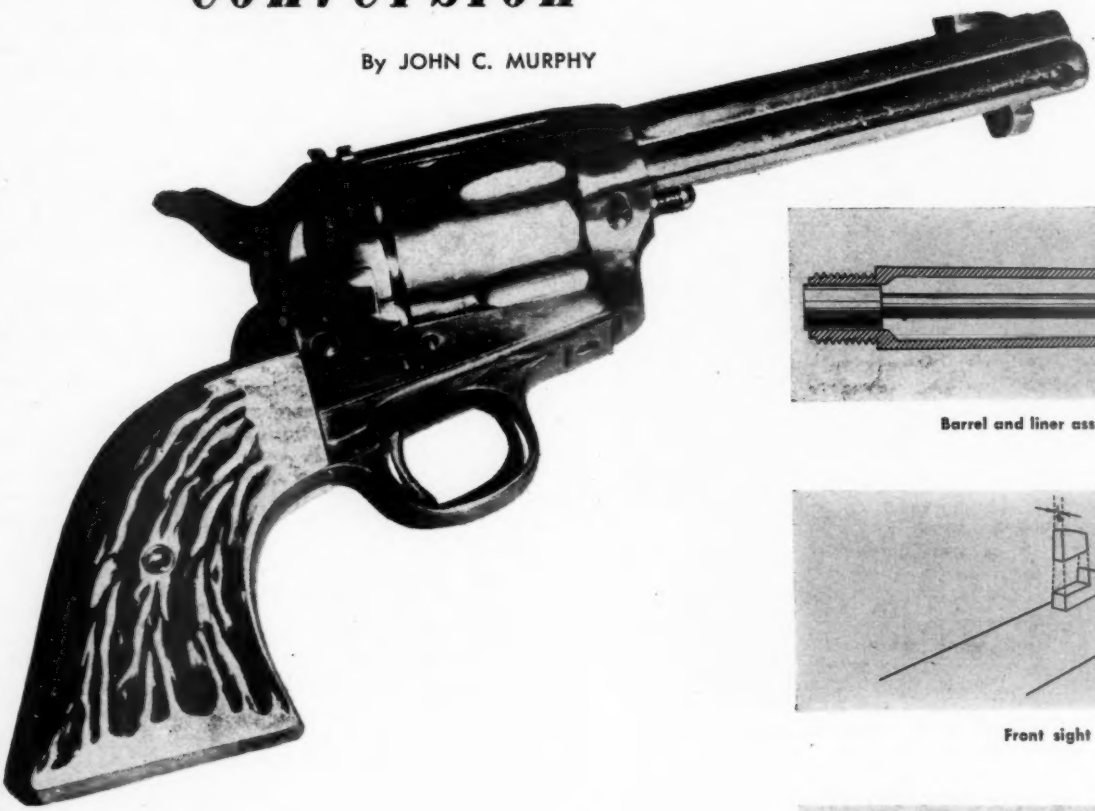
Before the last three coyotes came in sight, the leaders started on toward me. I had them completely fooled. When they got down off that dune, they were hidden by the bulge of the dune I was on. I couldn't see any of them for a few seconds, and I was getting the jitters. Then the other three hove in sight on the dune where the first two had been. Two of them didn't stop—just trotted right on down my side of the dune—but the tail-ender stopped to look things over. That made the setup perfect, so I let him have it. The other two spun around and ran a few jumps back up the dune, and when one of them set his feet and looked back, I laid him out. The third one was nearly out of sight over the dune by then, but he wasn't sure which way he should run. He stopped for a quick look, and that was as far as he ever got. By now the two leaders were back in sight, one running off to my right, the other running straight away. I could tell by his actions that the one on the right was going to stop, so I swung my rifle toward him, and just as I got the scope on him, he pulled up on a dune and looked back. I knocked him down and then looked for the last one. He was out of sight behind the dune I had shot the first three on, and when he showed up again, he had turned left and was running broadside to me, not getting much farther away. He was looking every which way as he ran, so I knew he still didn't know where I was. I figured he wouldn't go much farther without trying again to locate me, and sure enough, after circling me for about a hundred and fifty yards, he stuck all four feet into the sand and stopped. I quickly fired my fifth shot, and down he went!

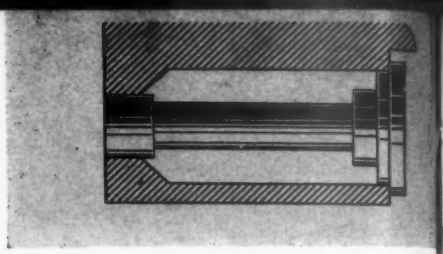
Now for a few words about my equipment. I use a pair of 9X35 Bausch & Lomb binoculars, and my rifle is a Winchester Model 70 .220 Swift, with which I have killed about nine hundred and eighty coyotes. Before I got the .220, I used a Winchester Model 54 .250-3,000. I killed about a hundred and fifty coyotes with it. The .250 is a good coyote rifle, but not nearly as good as the .220. I also used a .270 for a short time, but it kicked too hard to suit me, and is no more effective on coyotes.

If you get a chance to go after a few coyotes, just rig yourself up with these tricks and try them out.

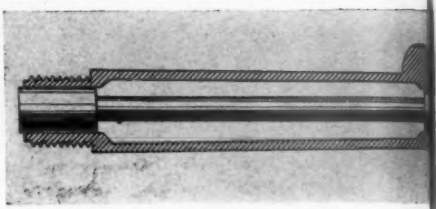
Single-Action Conversion

By JOHN C. MURPHY

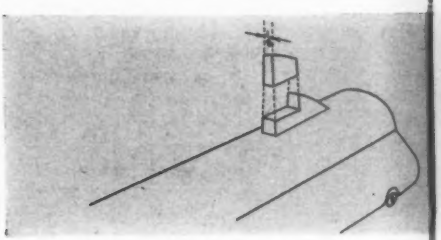




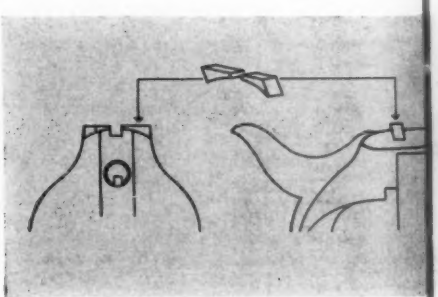
Chamber insert assembly



Barrel and liner assembly

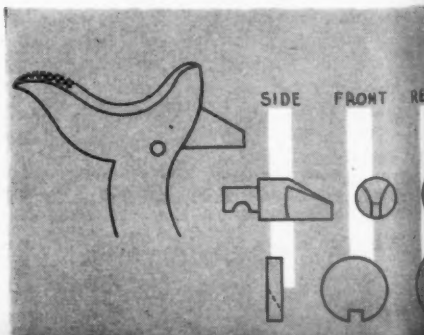


Front sight



Rear sight

Firing pin and recoil plate detail



SEVERAL YEARS ago I ran into an oldtimer with a Colt Frontier model to sell. The revolver was a short-barreled .32-20 which evidently had been hung up in the horse barn sometime during the Coolidge administration. The blue finish had long ago given up to a fine rust brown, but the gun was tight, and all clicks and clacks occurred in the right places. After listening to some sentimental pap about the gun and haggling over price a little, just for form, I bought it.

The old gun cleaned up pretty well. I shot it some, but with factory loads it was an ear-ringer, and any handload with enough go behind the bullet that I tried seemed just about as bad, so the gun lay around for a couple of years until I was able to add a small lathe to my stuff in the basement. Shortly after that, I began to think of converting the gun to .22. When a friend gave me a long Woodsman barrel with a nice bore, the job got under way.

A .22 conversion I had owned previously had an objectionable amount of weight compared to the big-bore original. I decided to try to mount the liner or insert on flanges, which would allow some airspace inside the gun and keep weight down. The idea also made the job more suited to my limited ability as a machinist. There would be less close tolerance contact or bearing area involved than in a solid reline job, although it might be a little more work. The finished con-

version runs about two ounces over a .45, empty weight, and two ounces under, loaded weight. A solid relined conversion runs about a half pound over, with the weight well forward.

With an eye towards the easiest part to replace, I started off with the .32-20 barrel after a friend who owns a vise removed it from the frame for me. With the barrel chucked in the lathe, I ran a half-inch drill in from the muzzle, about three-quarters of the way down the barrel. Then, worried about coming out off-center at the rear, the barrel was reversed and the drill run in from the rear. This method gave accurate entries at both ends of the barrel, and if the meeting in the middle wasn't true it didn't matter much. Next, I ran in a boring bar and scratched out more stock until the wall of the original barrel was about 3/32 inch thick, with heavier sections at the ends for the liner flanges to bear on.

The barrel liner itself is a little under ⅜ inch in diameter. As the Woodsman barrel was not heavy enough, the flanges were made separately and added to the liner.

Indexing the cylinder to drill it out was accomplished with a pin turned up to fit snugly in the .32-20 chamber. With the pin in the drill press chuck, and run into the chamber to position the cylinder, the cylinder was bolted to the press table. Then a 7/16 inch drill was substituted for the pin and the chamber drilled out. But notice that a short section of the original chamber was left untouched at the front of the cylinder so that the original indexing accuracy would not be disturbed. I have seen a conversion or two of chambers from which a lot of stuff flew out the sides.

The chamber inserts were turned out of half-inch cold rolled rod (see sketch). What looks like a useless little shoulder in front of the head of the insert is there so that the insert could be reversed in the chuck for facing and countersinking. The inserts were drilled from the front before cutting off, with a Number 3 drill, to have accuracy of alignment in meeting the barrel opening. Then, the insert was reamed from the other end with a little spiral reamer ground to finish .228 inch with no taper or throat. The reamer was furnished by a local outfit, Severance Tool Industries, Saginaw, Michigan, for about four bucks.

Assembling the parts was not quite to original plan. Not having much in the way of measuring gadgets or know-how, some of the press and shrink fits ended up being hand tight, so in these places the bearing surfaces were tinned with solder, then the parts set up on the drill press and pressed in after being warmed up with the torch. The barrel liner was left protruding about .025 inch at the rear to compensate for a little more gap than I wanted. Then, the front end was crowned in the lathe and the rear opening enlarged slightly.

With the barrel back in the frame, the cylinder was faced off a few thousandths inch at the front end. To keep the cylinder in its most rearward position, rather than allowing it to drag across the face of the barrel, the cylinder pin bushing was chucked in the lathe and the lip rolled out with a blunt tool to lengthen it. The light recoil of the .22 won't undo the adjustment.

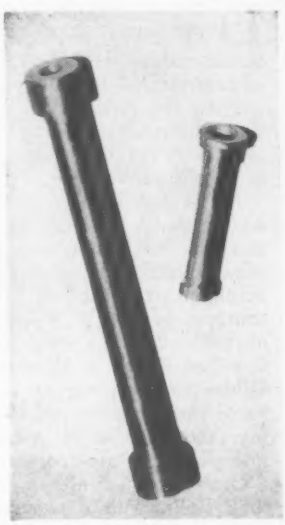
The recoil plate was driven out from the rear and a new firing pin made of drill rod. To form the nose of this rimfire pin, stock is removed from the sides and top only so that the pin will strike the bottom or inner rim of the cartridge. When the pin was finished, it was heated cherry red and quenched in beeswax warmed enough to be mushy. No drawing is necessary as it will be tough but not brittle.

With the pin done, a new recoil plate blank was turned and cut off, then slotted from the bottom to receive and clear the pin, and put into the frame by tapping with a brass bar. The .32-20 ejector rod is already thinned down on one side to pass clearly into the chamber, and a little more was ground off to let it enter the new smaller chamber.

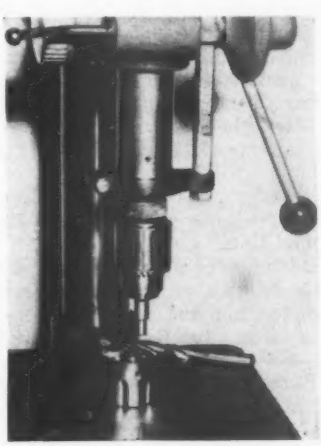
As soon as I was sure that the gun would shoot, I put some better sights on it—wide and flat topped. These were put on with soft solder and they will stay. I think a new sight is worth putting on any round-topped single action, unless it's strictly a collection piece. The rear sight was put on as one piece, then filed flat—even with the top of the frame. The notch was cut small and enlarged with trial shooting. The front sight ended up about 7/32 inch high for fifty-yards shooting.

I must admit that I wondered if the skinny liner, with its small mounting surfaces, might come flying out of the gun like a forgotten ramrod when I first fired it, but everything has stayed together nicely although I don't dare tank blue it with that solder in there. The gun shoots good. It won't group like a Woodsman or Hi-Standard, but it shoots better than a .22 conversion unit on a .45 auto. After steady firing, grouping is consistent. The small diameter barrel liner must be behaving itself despite a little heat expansion.

The fact that this converted gun has about the same weight, and hang, as well as the appearance of a big-bore single action revolver, appeals to me considerably. It was worth extra tinkering to build in the airspace. ♦ ♦ ♦



Chamber insert and barrel liner



Cylinder is indexed by running drill rod, turned to fit, into chamber and bolting cylinder to drill press table

AMERICAN Single-Shot CARTRIDGE PISTOL

By Hershel C. Logan

DOWN THROUGH the centuries man's simplest form of firearm has been the single shot. A crude tube closed at one end and fastened to a stick of wood was the beginning of firearms. A touchhole in the tube provided a means for igniting the powder with a match or firebrand. True, the single shots may have been elaborately made on some occasions, but the mechanism of their construction has always been relatively simple.

In all the ignition steps from the crude hand-cannon down through the matchlock, wheellock, flint and percussion eras, the single-shot arms were in the forefront. It is no wonder, then, that following the advent of metallic cartridge development in the late 1850's, the single-shot pistols should continue in favor . . . in spite of the increasing popularity of revolvers.

When Smith & Wesson in 1856 purchased the Rollin White patent of April 3, 1855, which provided for a cylinder bored through from end to end, they very effectively blocked the production of all revolvers using rim-fire metallic cartridges for some thirteen years.

Even though Smith & Wesson quite zealously protected their Rollin White patent, they did not appear to molest the manufacturers of single-shot arms. Mainly, we suspect, because they did not feel the lowly single-shot arm offered enough competition to their new seven-shot revolvers; too, the single-shot did not involve a breech-loading revolving cylinder. In fact they even granted licenses to other manufacturers to produce rim-fire cartridges upon which they held the patent (No. 27,933). Many early cartridge boxes will be found bearing the wording, ". . . under Smith & Wesson Pat. April 17, 1860."

It is these single-shot cartridge arms that we wish to consider in this study. In so doing, it is necessary to start with some common background facts.

Produced by many manufacturers of note for nearly one hundred years, one-shot pistols have ranged all the way from the plain to the elaborate, from the most inexpensive to specimens of considerable value. Practically all are rim-fire, only occasionally was one produced in center fire, and then in more or less limited quantities. The following rim-fire calibers are believed to be the only ones in which single-shot pistols were produced: .22, .25, .30, .32, .38, .41, .44, and .50. Center-fires known are .32 S&W, .41, .44 S&W Russian, and .50. The same manufacturer oftentimes produced models in more than one caliber, sometimes giving the same trade name to the various calibers, as for instance, the Marlin "NEVER MISS" in calibers .22, .32, and .41.

Six main actions were employed for loading—tip-down, side-swing, barrel sliding forward, barrel revolving to the left or right, rolling-block breech-block, and straight breech-loader on which the hammer acted as a breech block. Many were provided with an extractor; others lacked this convenience.

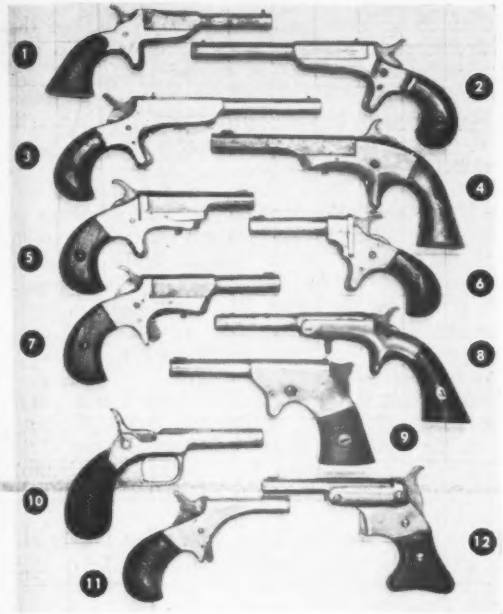
Several of the earlier types had birdshead grips but these gave way later to the more familiar western-type grips. As is the case with any class of arms, odd and unusual shape grips will often be found and the single-shot arms class is no exception. However, such grips are in the minority.

Produced for the most part in plain types, blued and nickeled finishes, and with walnut or rosewood grips, every now and then specimens will be encountered in presentation style . . . engraved frames, gold or silver plated, pearl or ivory grips. These were usually made upon special order for the wealthy or for gifts for notables, such as the Lord Model Stevens presented to Col. William F. "Buffalo Bill" Cody.

Many of these single-shot pistols carried only the name of a manufacturer. Others had but a trade name as, "OK", "XL", "BOSS", "EXPERT", etc., with no indication as to who produced them. In fact, these unidentified arms offer a veritable study in themselves which, let us hope, some day someone will undertake to unravel.

For the purpose of clarity this study of single-shot cartridge pistols has been broken down into five main divisions: vest-pocket, pocket, derringers, target, and military. Of these five divisions only three will be discussed here—pocket, target, and military. The vest-pocket group was covered in "Baby 22's of Other Days" (RIFLEMAN, December 1950). Derringers, those baby hand-cannons of .41 caliber, are a distinct group in themselves and it is my hope to present them more fully at a later date.

(My sincere thanks to Robert Abels, James E. Serven, Hamer Axelson, and Frank Slack for loaning specimens to illustrate, and to all others who assisted in this study.)



1) W. Irving .22
2) E. Allen .22
3) Forehand & Wadsworth .22
4) Merwin & Bray .22
5) "Never Miss" (Marlin) .22
6) "Expert" .30
7) "Gem" (Stevens) .22
8) F. Wesson .22
9) Terry .22
10) "Boss" .22
11) Unmarked .22
12) Stevens Vest Pocket .22

1) Cowles .22
2) E. Allen .22
3) "OK" .30
4) Bacon .30
5) Allen & Wheelock .30

1) Hammond Bull Dog (Connecticut Arms) .44
2) Rupertus .32
3) Rollin White .32
4) Stafford .22
5) Driscole .22
6) Stevens (brass frame) .22
7) Stevens .22
8) Morgan & Clapp .30
9) Dickinson .32
10) Taylor .32

(*Continued on next page*)

POCKET PISTOLS

Turning first to the pocket models, we find in this division the larger number of arms to be considered. For the most part these guns were rather small and compact, well fitted for the coat pocket. At the time they were in vogue, it was nothing unusual for men or boys to carry one with which to shoot at game, or just merely to plink at this or that. A friend of mine tells how his father always carried one of these single-shots with him while plowing. If no game showed up, he would shoot at some kind of a target while the team was resting. The ladies, too, often carried the smaller ones in their purses or handbags. This love of arms has always been an integral part of America.

While it is true that many of the pocket arms were also used for target shooting, we have for the sake of classification placed only those with barrel lengths of six inches or over in the target division. Barrel lengths of the pocket types runs from 2½ to 5 inches in length, with octagon and half-round barrels predominating. Calibers ranged from .22 to .44.

Generally speaking, these arms were produced for about fifteen years, beginning around 1858. During the late 70's and the early 80's, they were superseded largely by the great number of revolvers, which came into vogue following the expiration of the Rollin White patent in 1869.

Obviously it is impossible, in an article such as this, to go into detail on the more than two hundred types and models. Hence a few pieces will be selected which, due to some unusual feature, stand out above the others.

One of the first to be considered is the "Hammond Bull Dog" (Pat. Oct. 25, 1864) manufactured by the Connecticut Arms & Mfg. Co. of Naubuc, Conn. This heavy duty arm shoots a .44 short rimfire cartridge. Its unique feature is to be found in its breechblock, which is a heavy band around the frame. Pressing down the button, which also acts as a rear sight, allows the breechblock to revolve downward and backward to the left. In so doing, the empty cartridge case is ejected and the arm is ready for reloading.

Cocking the hammer on the Rupertus allows the barrel to be revolved to the left, after which it is pulled forward. A rim on the breech serves to extract the empty shell as the barrel is pulled forward. Rupertus Pat'd Pistol Mfg. Co. was active in Philadelphia from 1860 to around 1888.

Once the button on the left side of the frame of the Dickinson has been pushed forward, permitting the barrel to revolve to the right, the tiny lever underneath the barrel serves as a rachet to eject the shell.

Two similar tip-down barrel pistols are the Stafford and the Driscole. A hinged rear sight on the Stafford serves as a barrel catch, which when released permits the barrel to drop downward at the muzzle. What appears to be a second trigger in front of the regular spur trigger on the Driscole is in reality a release for the barrel, allowing it to be dropped down for loading. Stafford operated in New Haven, Conn. in 1860-61, producing his brass frame pistols. Driscole worked in Springfield, Mass.

Another sturdy arm is the .32 caliber brass frame pistol fabricated by L. B. Taylor & Co., of Chicopee, Mass. Pushing up the lever on the under side of the frame releases the barrel so that it may be slid forward for loading. A rimmed groove in the standing breech serves as an extractor when the barrel is moved forward.

Patterned somewhat after the Remington Vest Pocket are the Billings & Spencer (Pat. April 24, 1860), Terry and Stevens Vest Pocket (Pat. Sept. 6, 1864). All employ the method of using the hammer for the breechblock, a feature which was originally invented by William Elliott in 1861.

A novel chamber was used by Rollin White in his single-shot pistol (Pat. April 13, 1858). A button releases the rectangular chamber, allowing it to swing to the right. A small extractor fastened to the right side of the chamber is then used to push out the empty cartridge case.

The "EXPERT", patented on Sept. 22, 1873, is equipped with a breechblock, which when moved to the left permits the cartridge to be removed. This little item was also made with a target length barrel. No manufacturer's name is to be found on the piece.

Some confusion surrounds the Merwin & Bray arms. This company seems only to have acted as jobbing agents of arms,

1) **Wurfflein .44 S&W Russian**
2) **S&W Model 1891 .22**
3) **S&W Perfected Model .22**
4) **Hopkins & Allen .22**
5) **S&W Straight Line Model .22**
6) **Harrington & Richardson USRA Model .22**

rather than having actually engaged in manufacturing, even though some arms carry their name as the only means of identification. Due to similarity of lines, it is thought the one illustrated was produced for them by the Eagle Arms Co. of New York.

Before turning to the next group of arms, mention should be made of the Allen & Wheelock, Cowles, Bacon, and Allen. The Allen & Wheelock is easily identified by the frame over the rear end of the barrel. It may be found in .22 and .32 calibers. A well made, compact .22 caliber gun is the Cowles, which was manufactured by Cowles & Sons of Chicopee, Mass. Bacon Mfg. Co. of Norwich, Conn., produced the sturdy .30 caliber side-swing pistol illustrated. This company was established by Thomas K. Bacon in 1852. The Allen with the unusual western type grips is another of the varied line produced by the noted Ethan Allen of Worcester, Mass., a prominent arms maker from around 1832 until his death in 1871.

One class of single-shot arms which has all but been forgotten by collectors is the .22 caliber blank pistols of Fourth of July celebrations in by-gone years. Two such pieces are illustrated. Unidentified except for perhaps a trade name, they deserve a place in any collection of American arms. On both of the specimens pictured the hammer serves as the breechblock. The one stamped "BOSS" was patented April 22, 1873. The smaller one is totally unmarked. Both are of interest for their extreme simplicity, neither having more than a few moving parts. Hammer and trigger are of one piece on the "BOSS". Pieces of this kind represent an era long since passed in American history.

TARGET PISTOLS

Target shooting has always been a popular sport among those who have a weakness for guns. From flintlock days on down, arms fabricators have produced models designed primarily for target shooting. During the late 80's and early 90's, however, there were only about four makes of target pistols used by slow-fire target shooters. They were the Wurfflein, Stevens, Remington, and Smith & Wesson.

In 1884 William Wurfflein, son of Andrew Wurfflein, pioneer gunsmith of Philadelphia, was granted a patent on a single-shot gallery target pistol. It was a tip-down barrel type in a 10-inch barrel length. Two calibers, .22 and .44 S&W Russian, are known to have been produced.

In 1891 Smith & Wesson came along with the idea of making available extra barrels in different lengths and calibers. These were made so that, when the barrel and cylinder were removed from their Model 1891 single-action .38 caliber revolvers, the single-shot barrel could be installed and presto you had an ideal target arm. Later, this firm produced three other very fine target pistols . . . their Model 1891 single-shot, which was an adaptation of the first model mentioned above . . . their Perfected Model and their Straight Line Model. The Perfected Model was virtually in a class by itself for nearly a quarter of a century until succeeded by the Straight Line, which was patterned after the lines of the automatic arms.

The Diamond Model, Conklin and Gould Models, and the Lord Models, all made by Stevens, are too well known to go into detail here, even though they have disappeared from manufacturers' catalogs. A later model with similar lines to an automatic was called No. 10 Target Pistol. More requests come to my desk for the small Diamond Model Stevens than any other target arm. Men still remember the fun they had with this fine little pistol in their youth and want to pick up a specimen now for a keepsake.

Another unique arm that made its appearance during the 1870's was the Stevens New Model Pocket or Bicycle Rifle. These were target pistols made in 10-, 12-, 15-, and 18-inch barrel lengths and equipped with a skeleton stock. Frank Wesson also made such a pocket rifle, except he added a new barrel length . . . a 20-inch one. Just where they got the designation of Bicycle Rifle is not quite clear. Surely no one would attempt to shoot targets from a bicycle, or would they? Perhaps they only carried the guns on bicycles while riding to and from their shooting range.

Remington produced a limited number of target pistols along the lines of their rolling-block military pistols. Calibers from their 1891 Model were .22, .25, and .32 rim-fires. A 1901 Model was made in the follow- (*Continued on page 47*)

1) **F. Wesson Pocket Rifle .22**

2) **F. Wesson Pocket Rifle .22**

3) **Stevens Diamond Model .22**

4) **Stevens Gould Model .22**

5) **Stevens No. 10 Target Model .22**

.240 Wildcats

EXPERIMENTERS HAVE ATTAINED VELOCITIES OF 4,100 FEET A SECOND WITH MODERN VERSIONS OF A CARTRIDGE WHICH WAS DESIGNED FIFTY YEARS AGO

By AL BARR

ONE OF THE earliest references we have to a .240 caliber cartridge is the 6 mm. bottle-necked cartridge developed by James P. Lee for the Lee Straight Pull Rifle which was adopted by the Navy as the U. S. Navy Model 1895, caliber 6-mm.

The Lee 6-mm. or .236-inch cartridge was one of the earliest of the metal-cased variety to use a copper-jacketed bullet. It was loaded with a 112-grain blunt-nose bullet at a velocity of 2,560 feet a second, and in the Lee rifle had a mild recoil of seven foot-pounds. The 6-mm. Lee straight-pull is one of the smallest caliber military rifles ever adopted by any government, and the rimless 6-mm. case with its solid head was more advanced in design than any other cartridge then in use.

From 1895 to 1951. 6mm. Lee Navy (right) is granddaddy of the .240s. .220 Swift (left) appeared in 1935. .240 Cobra (center) combines .220's trajectory with long range punch and fine bench-rest accuracy

But the Lee 6-mm. cartridge was ahead of its time, for components available fifty years ago were adapted to larger bores. They caused poor accuracy and short barrel life in the Lee, and the 6-mm. cartridge soon fell into disuse.

In 1935, Winchester Repeating Arms Company brought out the .220 Swift cartridge using .224-inch bullets, the case of which was a semi-rimmed, strengthened, and improved version of the 6-mm. Lee-Navy case. The Swift case had an overall length of 2.205 inches as compared to 2.35 inches for the original 6-mm. case. Soon after Winchester started commercial production of the .220 Swift, experimenters began expanding the new and stronger case for 6-mm. loads.

To the best of my knowledge everyone who has experimented with the 6-mm. has realized some of its potential qualities, which include not only accuracy, but high velocity, flat trajectory, and excellent killing power. With an 85-grain bullet at 3,600 feet a second, an energy of approximately 2,450 foot pounds, and a trajectory equal to the .220 Swift with a 55-grain bullet; the 6-mm. has a punch comparable to a .30-40 Krag with a 180-grain bullet at 2,470 feet a second muzzle velocity, and a punch greater than the .300 Savage with a 150-grain bullet at 2,670 feet a second.

The 6-mm. wildcats are known by many different names, but the most prominent is the .240 Cobra. Bullets have been lightened to about 75 to 90 grains and velocities have been increased. Speeds of more than 4,000 feet a second have been attained with 65-grain bullets; with 110-grain bullets, velocities of better than 3,200 feet a second are reached.

The designation of these 6-mm. wildcats as .240 caliber is not technically accurate. The rifles usually have a land diameter of 6 mm. or .236-inch, and the normal bullet diameter is approximately .243-inch. Designation of these wildcats as .240 caliber therefore indicates neither the land or groove diameter, but does serve as a convenient method of identification in keeping with the modern practice.

Early in 1949 I began collecting data on the 6-mm. caliber wildcats. Experiments have been conducted with many different cartridges, and a brief examination of these experiments will yield some information about the development of the .240 wildcats and may enable us to arrive at a few conclusions as to which cases and loads are most likely to give optimum performance with the .240.

According to J. E. Gebby, the original .240 caliber wildcat was a necked-down .270 Winchester. This wildcat, the .240 Gebby Super Varminter, was first recommended by the late Captain G. L. Wotkyns, who developed or assisted in developing some of the finest wildcat cartridges known today.

Gebby also experimented with a necked-down and shortened .300 H&H Magnum case, with the .257 Roberts case, and with the .22 Senior Varminter case (a blown-out Roberts) expanded to .2401-inch bullet diameter. However, he now is interested only in the original .240 Gebby Super Varminter, based on the necked-down .270 case. With the cartridge he has chronographed velocities of 4,000 feet a second using 58 to 60 grains of 4350 powder with 75-grain bullets. For use with 75- to 90-grain bullets his barrels are normally rifled with one turn in twelve inches.

I have seen photostatic copies of groups, fired by Gebby and several owners of the Gebby Super Varminter, showing that with 75-grain bullets chronographing nearly 4,000 feet a second the .240 Gebby wildcat frequently groups inside of 1½ to 1¾ inches at 200 yards. Gebby believes the measurement to be normal group size for the load.

.240 Cobra, 28-Inch Barrel, .2426-Inch Groove (Cramer Chronograph)

Bullet Weight	*Diameter (inch)*	*Charge*	*Velocity (f.s.)*
100 gr. RCBS	.2425	46.0 grs. 4350	3268 about maximum
85 gr. W-M		46.7 grs. 4350	3615 about maximum
100 gr. RCBS	.243	45.0 grs. 4350	3275 about maximum
70 gr. Pearson	.243	42.0 grs. 4895 (27277)	3740 mild maximum
80 gr. RCBS	.242	41.0 grs. 4895 (27277)	3497 mild maximum
80 gr. RCBS	.242	48.0 grs. 4350	3545 mild maximum

.240 Cobra by Homer Brown, Custom Gunsmith Service

60 gr. W-M	46.0 grs. 4895	4113
65 gr. W-M	45.0 grs. 4895	3998
75 gr. W-M	42.0 grs. 4895	3790
75 gr. Barnes	42.0 grs. 4895	3755
90 gr. Barnes	42.0 grs. 4064	3535
90 gr. W-M	46.5 grs. 4350	3640

.240 Cobra, 13-Inch Twist, H. P. White Company Velocity Figures

75 gr. 8-S	.243	42.0 grs. 4895 (27277)	3551
75 gr. 8-S	.243	43.0 grs. 4064	3551
85 gr. 8-S	.243	42.0 grs. 4895 (27277)	3406
85 gr. 8-S	.243	47.0 grs. 4350 (Ipco Wad)	3557
85 gr. 8-S	.243	43.0 grs. 4064 (no wad)	3406

.236 Gipson (Swift Case)

75 gr. Barnes	42.0 grs. 4895 (27277)	3775
90 gr. Barnes	42.0 grs. 4064	3535
90 gr. Barnes	46.5 grs. 4064	3640
60 gr. W-M 8-S	46.0 grs. 4895 (27277)	4113
65 gr. W-M 8-S	45.0 grs. 4895 (27277)	3998

.240 Super-Varminter, H. O. Dean, Nickerson Chamber

75 gr. 8-S	50.0 grs. 4320	3680
75 gr. 8-S	53.0 grs. 4064	4008
75 gr. 8-S	57.0 grs. 4350	3780
75 gr. 8-S	60.0 grs. 4350	4160
75 gr. W-M	58.0 grs. 4350	3990
87 gr. S.P.	50.0 grs. 4064	3677
87 gr. S.P.	56.0 grs. 4350	3733
100 gr. S.P.	50.0 grs. 4350	3374
100 gr. S.P.	52.0 grs. 4350	3510

6 mm., .236 Gipson

75 gr. Barnes	50.0 grs. 4064	3895
75 gr. Barnes	52.0 grs. 4064	4027
90 gr. Barnes	46.0 grs. 4064	3642
90 gr. Barnes	46.0 grs. 4320	3611
90 gr. Barnes	50.0 grs. 4350	3611
90 gr. Barnes	52.0 grs. 4350	3675
105 gr. Barnes	48.0 grs. 4350	3362

In 1944, I tested one of Gebby's .240 Super Varminter rifles with .243-inch, 75-grain bullets and 58 grains of 4350 powder as loaded by the late J. Bushnell Smith. When sighted to hit on point of aim at 200 yards, impact was only 11¼ inches low at 400 yards. The velocity of the load was very close to 4,000 feet a second.

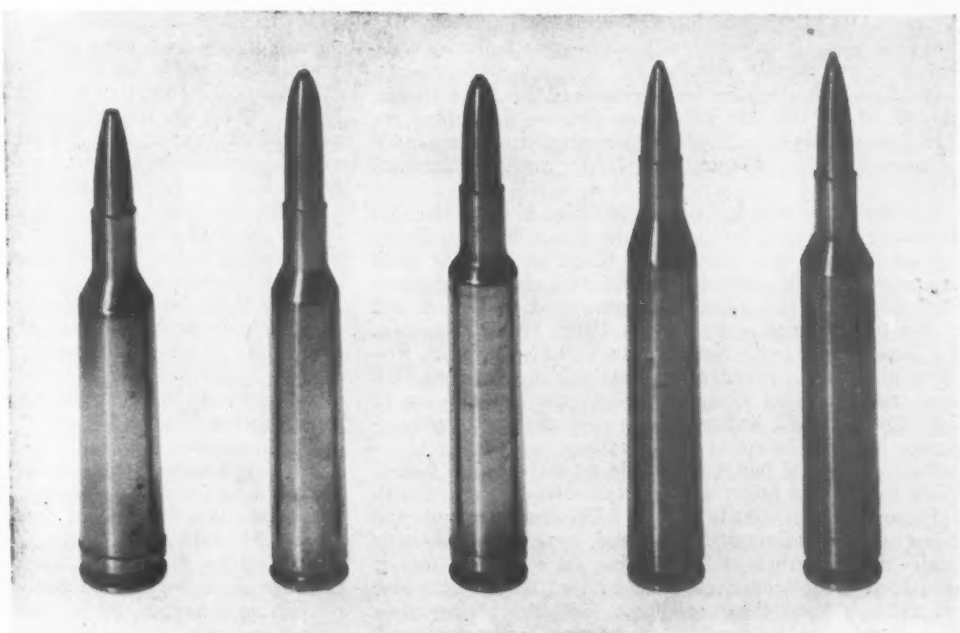
In 1946, I tested another .240 caliber rifle sent me by Russel E. Hightower of Trinidad, Colorado. The rifle was chambered for a short, necked-down version of the .30-'06 case. One load used 50 grains of 4350 powder with a 100-grain bullet, another used 51 grains of 4350 with a 90-grain bullet, and both combined flat trajectory with very good accuracy.

While the .240 wildcats are normally classed as varmint cartridges, experimenters have proven them to be adequate for most big-game hunting when the proper loads are used. In 1949, Don Traynor of Fort Collins, Colorado, reported on the performance of several .240 caliber rifles on big game. With three different rifles, a total of eleven head of big game were taken. The kills included white tail and mule deer, brown and black bear, and even elk. The .240 proved entirely adequate in all cases. One of Traynor's successful loads used a 110-grain bullet with 41½ to 42 grains of 4350 powder. For the 110-grain bullets, the barrel was rifled with one turn in eight inches.

Another experimenter with the .240 Gebby Super Varminter, Harry O. Dean of Williamsville, New York, using 75-grain bullets, succeeded in retaining fine accuracy with velocities in excess of 4,000 feet a second, which seems to be about the limit with the cartridge.

Another version of the .240 is the .243 Express, developed by P. O. Ackley of Trinidad, Colorado, using a belted, shortened, and necked-down .30-'06 case. The case handles approximately the same loads as the .240 Cobra loads listed in the table in this article.

Lucien Cary, the well-known gun writer, and M. H. Walker, of the Remington Arms Company, conducted extensive experiments with .240 wildcats. They used a necked-down, belted .300 H&H Magnum case shortened to approximately 2-3/16 inches. However, they found that the case was not adapted to the .240, as it seemed to be too large and



Experimental .240 caliber wildcats, (left to right): Walker-Cary, belted .300 Magnum case; Ackley .243 Express, belted '06 case; Art Mashburn, .257 Roberts case; Gebby Super Varminter, .270 case; Vernor Gipson, shortened .30-'06 case

gave erratic results. The Walker-Cary, belted-case version chronographed 3,290 feet a second with a 90-grain bullet and 46 grains of 4895 powder, and 3,470 feet a second (possibly 3,600 at the muzzle) with 53 grains of 4350 powder.

It would seem that the altered .300 belted Magnum case is not the most suitable one for the .240 caliber cartridge, since it has failed to duplicate the results which we can get with the .240 Cobra or with the .300 H&H Magnum case necked down to .25 caliber. There is an indication that the width of the case may affect the performance because of a pressure-velocity ratio. Nevertheless, the belted case has not been totally abandoned. Walker, and possibly others, are conducting further experiments to attempt to develop the larger case's possible target accuracy, power, and dependability.

T. K. Lee of Birmingham, Alabama, also has experimented with the short, necked-down version of the belted magnum case. With a 75-grain bullet his best load was 55 grains of 4350 powder, and velocity was estimated at around only 3,800 feet a second.

These experiments, I believe, indicate that with normal bullets weighing 85 to 90 or possibly 100 grains the maximum permissible working capacity of a case for the .240 wildcats should be close to 50 grains of 4350 powder or its equivalent. Little seems to be gained by increasing the capacity beyond these limits. The failure of the short, belted Magnum case to produce the desired results consistently with .240 caliber bullets is evidenced by the growing trend among experimenters toward smaller capacity cases. It is especially noticeable among those who desire to attain bench-rest accuracy.

Wildcat cartridges in .240 caliber have been made by the Mashburn Arms Company, 112 W. Grand Ave., Oklahoma City, Oklahoma. I have seen one based on the .257 Roberts, although no version of the .257 Roberts in .240 caliber worked out too well for Gebby or Charles Morse, who makes the Wotkyns-Morse bullets. There are probably dozens of other cases which have been experimented with in .240 caliber, but it is difficult to compile conclusive evidence as to the success or failure of these experiments.

I have used an Ackley version of the necked-down .250 Savage case in a .240 caliber rifle made by Ackley. The cartridge proved to be about the equivalent of the .240 Cobra.

Another .240 cartridge which I have is the German 439-A. A sample DWM case, which is in my collection, indicates that it is 6x58 mm. It is loaded with a 124-grain bullet at 2,800 feet a second muzzle velocity.

As I have said, there are many versions of the .240 cartridge, but one of the best and most convenient of them all is the .240 Cobra, using the .220 Swift case with the neck expanded to accommodate .243-inch (or slightly smaller) diameter bullets.

I do not know who had the original idea of using the .220 Swift case for 6-mm. bullets, but the late J. Bushnell Smith was interested in the .240 wildcat based on the .220 Swift case, and Vernor Gipson of North Salem, Indiana, and Byron E. Cottrell of Utica, New York, were working with a case of this type at least as far back as 1948. Homer Brown of the Custom Gunsmith Service, Sun Valley, California, promoted the use of the expanded .220 Swift case for .240 wildcats, and conducted a contest which gave it the name of .240 Cobra, which indicates not only the cartridge's accuracy, but also its speed and deadliness.

Early in 1949, I had a rifle made up for the .240 Cobra. With an 85-grain bullet and the case literally packed with 4350 powder, the velocity is over 3,550 feet a second, and it is a superbly accurate varmint load, grouping consistently inside of 1¾ inches at 200 yards. At least 700 rounds have been fired through the rifle without loss of accuracy, but there is some throat erosion. The bigger cases with their larger powder capacity, consequent higher pressures, and possible higher velocities should be very erosive. Vernor Gipson believed that some of his cases for the 6 mm. were too large. In a necked-down .30-'06 case he used as much as 61 to 63 grains of 4350 powder with a 90-grain Barnes bullet to attain a velocity of 3,788 feet a second.

Joe Pfiefer says that a lot of credit for development of the .240 Cobra belongs to Vernor Gipson and the late J. B. Smith. But, the Pfiefer Rifle Company of Sun Valley, California, did participate in the early development of the cartridge, for they made, fitted, and chambered barrels for the .240 Cobra.

A limited number of people make bullets or molds for the .240 caliber. For varmint shooting, the 75- and 85-grain Wotkyns-Morse bullets are about as accurate as any available in the caliber. I have tried some of Barnes' heavier bullets, the Ackley 75- and 85-grain controlled expansion bullets, and a few experimental 100-grain bullets. From actual experience I know that a bullet weighing about 85 grains with a velocity of 3,500 feet a second is just about tops in a long-range varmint rifle.

In addition to the Wotkyns-Morse and the Barnes bullets in 6-mm. caliber, bulletmaking dies are available from the RCBS Gun & Die Company, 1365 7th Avenue, Oroville, California, and Pearson's Gun Shop, 5343 Keystone Avenue, Indianapolis 5, Indiana. When supplies are available the Harris Machine Company of 9212 E. Bermudez, Rivera, California, makes bullet jacket material in 6-mm. caliber, and we have seen a few jackets made by Ernest L. Gardiner of 466 6th Street, Rockford, Illinois.

My Pfiefer barrel with 13-inch twist stabilizes the 85-grain Wotkyns-Morse bullet, but standard rifling twist seems to be about one turn in 12 inches. For very heavy bullets one turn in ten inches or even one turn in eight inches is used. The 13-inch twist I've been using will not stabilize a 90-grain bullet, which is exactly one inch long. The 85-grain Ackley controlled expansion bullet is .975 inch long, and would require at least one turn in twelve inches to stabilize it.

Reasonably heavy bullets in 6-mm. caliber have a very impressive sectional density, the weight of a bullet divided by square of diameter. The figure of .276 for the 112-grain bullet and of .260 for a 105-grain bullet is comparable to the sectional density of the 145-grain .270 caliber bullet, and very close to that of the 180-grain .30-'06 bullet.

With Ackley controlled expansion bullets I have obtained groups of less than three inches at 200 yards consistently. One shooter tested his .240 Gebby Super-Varminter up to 400 yards with 58 grains of 4350 powder and a 75-grain 8-S bullet. With the rifle sighted to hit on aim at 100 yards, point of impact was only .8 inch low at 200, 5.1 inches low at 300, and 9.8 inches low at 400 yards. My .240 Cobra won't shoot as flat, for the point of impact appears to be 14 to 15 inches low at 400 yards with the rifle sighted in to hit on point of aim at 200 yards. Nevertheless, that is as flat shooting as the best handloads for the .220 Swift.

Some of the velocity figures in the accompanying tables indicate that, for high velocity, good accuracy, and flat trajectory, the best bullet weight would be 85 to 90 grains. The lighter 75-grain bullet with its mediocre sectional density isn't as satisfactory, for the velocity with loads which give decent accuracy is about the same as we can get with the more effective 85-grain bullet.

The reasonable barrel life, high velocity, and bench-rest accuracy obtainable with the .220 Swift case blown out and expanded to .240 caliber indicate that it is one of the most adaptable cases the modern experimenter can hope to find for his .240 caliber wildcat.

Thus, although James P. Lee designed his original 6-mm. cartridge more than a half century ago, shooters are finally discovering that it is one of the best possible existing case designs for contemporary high-intensity wildcats. ◆ ◆ ◆

EARLY DAYS OF THE

recollections of the National Rifle Association

CONCLUSION

By Brig. Gen. George W. Wingate

FOR A NUMBER of years the State of New York pursued a very generous policy in respect to rifle shooting. It maintained a camp at Creedmoor, where tent accommodations were provided for the use of competitors. It paid the transportation expenses and provided ammunition for teams for all the different National Guard organizations of the state which chose to send them. And it also provided a number of valuable prizes, including the Soldier of Marathon, the interstate trophy.

These attractions brought a large number of competitors to the different matches, whose entrance fees furnished the National Rifle Association with funds by which it was enabled to make an attractive program. Teams from many states, even California, were represented at our annual matches, and the Army sent teams for a number of years from its divisions.

But, rifle shooting is not an attractive pastime for the onlooker, and after the first international matches there were few spectators. There were very few civilian riflemen, and, as public interest waned, the National Guard teams from other states began to drop out. The riflemen of New York were very expert, and the teams from the other states felt that they could not afford to incur the heavy expense of going to Creedmoor with the uncertain chance of beating these New Yorkers.

In 1880, Alonzo B. Cornell became Governor of the State of New York. I had resigned as inspector general of rifle practice of that state the preceding fall, but happening to be in Albany early in 1880, I paid a visit of courtesy to General Frederick Townsend, Governor Cornell's adjutant general. I found him disturbed over the Governor's antagonistic attitude toward the National Guard. He asked me if I would not do him the favor to call with him upon the Governor, and urge upon the latter the importance of not interfering with the rifle shooting of the Guard. I went ostensibly to invite the Governor to attend the Creedmoor meeting in September to present the Hilton trophy and the Soldier of Marathon trophy.

Imagine my feelings, when Governor Cornell told me that "there never would be any war in my time or in the time of my children, that all the Guard needed was to be able to march a little through the streets, that there was no necessity of their being taught to shoot, that he considered it a waste of the money of the state to expend any of it for this purpose, and that he would not countenance by his presence anything as foolish as the rifle shooting at Creedmoor." I suggested to him that common sense would point out that if a soldier were given a weapon he should be either taught to use it, or it should be taken away from him, and if the facts were as he (the Governor) stated, rifles should be taken away from the National Guard and clubs issued which they could use without any instruction. We had quite a warm discussion on the subject, but I was not able to change his views.

Despite the strenuous opposition of the National Guard, Governor Cornell abolished the issue of tents and other articles at Creedmoor, and also the system of providing transportation for the teams of the various organizations of the state to that range for the annual matches of the National Rifle Association, and thus rendered it impossible for the

Palma trophy for international rifle matches was contested for by teams representing United States, Great Britain, and Canada during '70s, '80s, '90s

organizations in the interior to attend. This act struck a heavy blow at rifle shooting in New York State, as the incentive to make a fine record at Creedmoor did a great deal to maintain the standard of rifle shooting. The effect of withdrawing these competitors from its matches was very detrimental to the Association.

During this year the Army team from the Department of the Missouri won the Hilton trophy for the first time. Thereupon the Army authorities decided to send no more teams to the matches of the National Rifle Association. This was opposed to all sporting rules as they quit winners. It was also the worst thing in the world for rifle shooting in this country, for if the Army did not consider the matches of the National Rifle Association to be of sufficient military value for it to be represented in them, what was the use of the National Guard of the states doing so? This action of the Regulars was regretted by many high-ranking Army people, but all argument was in vain.

I believe that it was 1895, an interval of fourteen years, before an Army team shot in any of the National Rifle Association matches either at Creedmoor or Sea Girt, New Jersey.

In 1881 Sir Henry Halford, who was considered to be the leading rifleman in Great Britain, proposed that shooting with a match rifle with sights like a surveying instrument, and which was cleaned after every shot, was not the kind of shooting that a National Rifle Association ought to encourage, and that its true object was to train the nation in shooting with a military rifle with such sights as could be used in war. He suggested that America establish international matches to be shot with such a gun, for, even if we did not win at first, we would in time develop an accurate military rifle and ammunition, and men who knew how to shoot it.

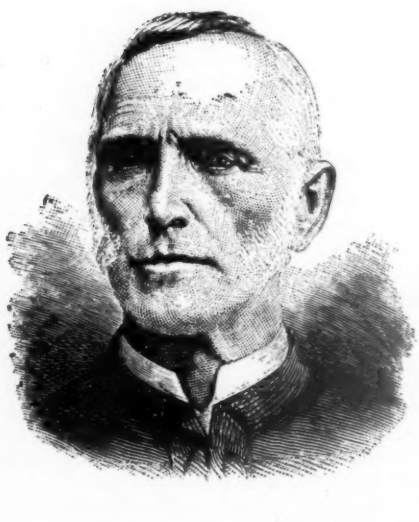
These views were concurred in by the leading spirits at Creedmoor, and in 1882 we agreed with the National Rifle Association of Great Britain to establish an international match with military rifles.

It was an almost foregone conclusion that Great Britain would win this match. The British had a special gun with which they were familiar, and which was superior at the longer distances to any military rifle in use in this country. Our men had no experience in shooting beyond 600 yards with military rifles. They also were unfamiliar with shooting without a wind gauge, and the British had refused to allow an adjustable rear sight in the match.

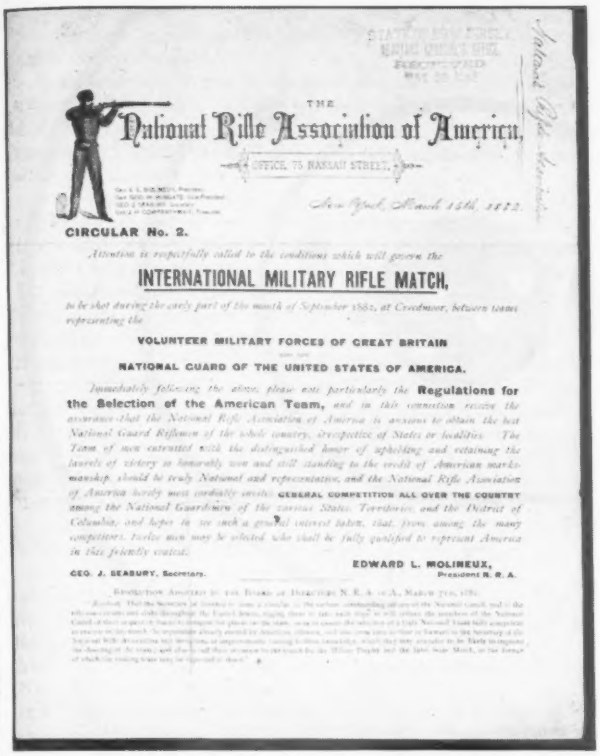
The match was shot on September 14, 1882, Colonel John Bodine being captain of the American team and Sir Henry Halford of the British. The British led us nine points at 200 yards (which was a great surprise, as we thought we were surely the best offhand shots), nine at 500, and one at 600, making nineteen at the shorter ranges. At the longer ranges they led by 151 points, winning the match by 170.

In the return match at Wimbledon in July 1883, the use of the wind gauge was allowed our team by the British, and our team showed a marked improvement.

On the first day, July 20, 1883, the weather was cloudy with occasional heavy rain. Yet in firing at 200, 500, and



Colonel John Bodine, excellent long-range rifleman during early NRA days, led numerous U. S. teams in international competition with Irish and English teams



THE
National Rifle Association of America,
OFFICE, 75 NASSAU STREET,

CIRCULAR No. 2.

Attention is respectfully called to the conditions which will govern the

INTERNATIONAL MILITARY RIFLE MATCH,

to be shot during the early part of the month of September 1882, at Creedmoor, between teams representing the

VOLUNTEER MILITARY FORCES OF GREAT BRITAIN

and

NATIONAL GUARD OF THE UNITED STATES OF AMERICA.

Immediately following the above, please note particularly the **Regulations for the Selection of the American Team,** and in this connection receive the assurance that the National Rifle Association of America is anxious to obtain the best National Guard Riflemen of the whole country, irrespective of States or localities. The Team of men entrusted with the distinguished honor of upholding and retaining the laurels of victory so honorably won and still standing to the credit of American marksmanship, should be truly National and representative, and the National Rifle Association of America hereby most cordially invites GENERAL COMPETITION ALL OVER THE COUNTRY among the National Guardsmen of the various States, Territories, and the District of Columbia, and hopes to see such a general interest taken, that, from among the many competitors, twelve men may be selected, who shall be fully qualified to represent America in this friendly contest.

EDWARD L. MOLINEUX,
President N. R. A.

GEO. J. SEABURY, Secretary.

Announcement of international military long-range rifle match between U.S. and British national guard teams issued by National Rifle Association

600 yards, the Americans led by eight points. On the second day, in the firing at 800 yards, they gained eight more. But, after lunch, when firing at 900 and 1000 yards, the rain was so heavy that the Americans were all at sea, never having been accustomed to shoot in such weather, and they lost the match by forty-five points.

The defeat of the Americans in this match was somewhat retrieved by the success of the Massachusetts riflemen.

In 1889 the Massachusetts Volunteer Militia, without outside assistance, organized a team from its members, armed them with the .45-70 Springfield, and sent them to England. They were not able to get up a competition at Wimbledon, not being a national team, but they shot many matches against different organizations in many parts of England, and in every instance were successful.

From its inception the National Rifle Association did its best to make itself national in scope. However, all attempts seemed futile, for the riflemen, shooting clubs, and National Guard of other states failed to realize the importance of a truly national rifle association, or at least they failed to make the slight effort which would have enabled the National Rifle Association to succeed.

The National Rifle Association also experienced a great deal of difficulty from the fact that while it was national in name and spirit, it was local in the sense of being owners of Creedmoor. Those who were concerned in the management of the Association did everything which was possible to conduct its matches with scrupulous fairness, yet it was not unnatural for riflemen coming from a distance, particularly if they were unsuccessful, to consider that undue favoritism had been exercised toward the home teams. There was, therefore, considerable fault-finding, but I do not think it ever had any substantial foundation.

Creedmoor was the practice ground for the First and Second Divisions comprising the National Guard of the cities of New York and Brooklyn. To accommodate them, it was necessary for the National Rifle Association to maintain a force of markers and scorers, and to incur an expense of some $4,000 a year. For years this was raised on the personal notes of General John B. Woodward and myself, the state repaying us.

About 1890 the directors concluded that this imposed an unnecessarily heavy burden upon them, and that the state should conduct the instruction of its guard in shooting. They were also apprehensive that at some election of the Association control of Creedmoor might be obtained by persons who had ulterior interests to serve.

It was therefore decided to convey Creedmoor to the state,

General Bird W. Spencer was president of New Jersey Rifle Association when it took over matches of National Rifle Association in 1892. Spencer was NRA president from '86 to 1902

reserving the right of the National Rifle Association to hold its matches upon it. The property thus parted with was easily worth $100,000. For a time this arrangement worked satisfactorily and relieved the Association of a considerable burden. But about 1891 Captain Whitlock, who had previously been regimental inspector of rifle practice, was appointed as general inspector of rifle practice of New York State, with the rank of brigadier general.

It had always been the practice of the Association to hold matches at Creedmoor every Saturday during the shooting season, the scores in which were recognized by the state as qualifications for a marksman's badge. The opportunity of winning this badge, as well as the sport of engaging in the competitions, brought to these matches many competitors. They also afforded valuable training for the regimental teams.

General Whitlock, however, clothed with a little brief authority, announced that he would not recognize as official, scores which were made in the matches conducted by any private organization, and withdrew his sanction from those made in the matches of the National Rifle Association.

In view of the fact that these matches were shot on the same range, that the scoring was done by the same markers that were employed by the state, and that those managing

(Continued on page 46)

this handgun game

PRACTICE METHODS

By Colonel A. M. Libasci

LAST MONTH we discussed guns and accessories for the beginner in pistol match competition. Now we can cover the highlights of practice methods and habits which we believe will help the beginner make rapid and intelligent progress.

Although pistol shooting is one of the few sports that can be learned out of a book, the services of an experienced and competent coach will accelerate progress. If possible, the beginner should join a pistol club. He will find most seasoned shooters in the club cooperative and helpful. Many clubs have organized training programs and competitions for beginners. If there is no club near you, perhaps you can find a tournament shooter in your locality. Exploit every possible source of instruction. Try your police department; many police departments have excellent instructors and they may help you if properly approached.

Many valuable hints can be gained by reading books and articles on pistol shooting. After reading most of the present-day books, I have combed out the following as being the best. They are listed in the order in which they should be read:

1) *Pistol Marksmanship*, NRA Handbook No. 4 (75¢) This is an excellent condensation of the fundamentals.
2) *Pistol and Revolver Shooting*, by Walter F. Roper ($2.50). Excellent text on pistol shooting and equipment.
3) *The Art of Handgun Shooting*, by Charles Askins (out of print, but possibly obtainable from second-hand book dealers). A pithy text in highly readable style by one of the greatest match pistoleers of the past.
4) *Experiments of a Handgunner*, by Walter F. Roper ($4.50). An extremely informative book on many experimental phases of the game by a pioneer. It covers pistol grips, sights, mechanisms, accuracy, etc.

So far, then, we have the best equipment, the coach or manuals and books. Now, what does it take to reach the top? Well, first it takes motivation—the drive or desire to excel, the will to win! Secondly, it takes hard work—many hours, many weeks, months, and years of ardent and purposeful practice. And lastly, it takes match competition—as many tournaments as you can possibly enter!

If you participate in only one or two tournaments a year, your progress will be slow. After you have reached a certain stage of development, further practice by yourself will add little to your prowess as a competitive shooter. Your standing as a match shooter will be almost directly proportional to the number of tournaments you enter!

Don't expect too much at the beginning. Many shooters become discouraged at the poor match scores they make in their early tournaments compared to their practice averages. It takes years of tournament experience to turn a shooter into a top-notch competitor. We do not wish to discourage you with these facts, but merely to do the opposite—spur you on and prevent frustration at what you might think is slow progress. Stick to it and soon you'll be winning medals.

Remember this—try to exploit every possible opportunity to shoot against someone else, either in club or league matches or in friendly competition with a shooting partner. Whether

Before shooting, either in practice or competition, blacken the front sight with a carbide lamp or candle to remove glare from the sight

you ever equal or surpass your practice scores in tournaments depends on your emotional makeup and self control. If you reach this stage you will be among the topnotchers and will garner many medals!

The most important factor in the business of learning how to shoot it to make certain we start off properly. Slipshod methods will not produce a Master rating. It is extremely important to understand thoroughly the principles of pistol shooting early in the game.

Basically, and reduced to its ultimate, pistol shooting is a test of muscle nerve and emotional control and coordination. One must hold steadily, sight accurately, and apply pressure to the trigger so that the hammer falls at the proper moment. No one can hold absolutely still even without trying to apply pressure to the trigger! No one can sight with 100 percent accuracy! No one can squeeze the trigger without imparting some movement and disturbance to the gun! Yet we must try to do all three of these things simultaneously, while standing on our hind legs shoulder to shoulder with dozens of other shooters under all sorts of external conditions and pressure! To enable the beginner to do these things we should break down the factors involved and practice them one by one until each is mastered and then combine them.

The first thing to learn is trigger squeeze, eliminating all other factors. The beginner should take the proper grip on his handgun (see recommended texts or your coach. If possible have a coach check you and show you the proper squeeze by squeezing the trigger for you, over your finger, while you hold the gun). He should then sit down comfortably, resting his right elbow on the arm of the chair or placing the right wrist in the lap (check gun for safety each time you pick it up!), close his eyes—for better concentration—and practice squeezing. Concentrate on applying the pressure with the trigger finger as slowly and gradually as you can. While always applying pressure, draw out squeeze over as long a period of time as you can. Don't anticipate the 'breaking point.' Let the hammer fall be a complete surprise to you always. And each time you squeeze, hold your breath.

You can't overdo the exercise in trigger squeeze if you do it conscientiously and properly. Ten to twenty minutes daily of the exercise will do wonders.

During the period that you are conscientiously practicing this armchair exercise, study in your texts the principles of sighting and implant in your mind the perfect sight picture. There are many charts available that will give you the perfect picture. You will soon note that side to side sighting or centering the front sight depends on your ability to equalize the line of sight on either side of the front sight. As nearly perfect sight alignment as possible is necessary for successful shooting. Due to the relative short distance between sights, compared with the distance to the target, slight errors in sight alignment are magnified tremendously. At 50 yards (1800 inches) the error of misalignment is magnified two hundred times if the distance between sights is nine inches! A sighting error of a 1/64 of an inch will throw you off approximately three inches at 50 yards. An error of 1/32 inch will throw you off six inches! Consider that we are trying to hit a 10-ring of approximately three inches in diameter and you begin to see the importance of sight alignment.

On the other hand, gun sway up and down and side to side is not destructive to good scores. You can sway as much as three inches and still get a ten at 50 yards—*provided* you have good sight alignment.

Practice learning the perfect sight picture by eliminating all other factors but sighting. Rest your wrist or arm in an extended shooting position and sight at a white wall or piece of paper. Do not use a bullseye at first. Just hold the gun out and line up your sights in as nearly perfect alignment as you can. When you begin to achieve real skill, then practice the sight picture while standing with arm extended in position without a rest.

Now you are ready to combine the two factors we have concentrated on, proper squeeze and proper sight alignment. Stand up and extend your arm in shooting position, cocking your gun after assuring yourself first that it is empty. Align

After you have learned to squeeze the trigger and to align the sights, take position and fire dry at a blank piece of paper ten feet away

your sights at a white wall or piece of paper ten feet or more away and practice your trigger squeeze. Hold your breath for each squeeze. Do this by taking a deep breath and expelling about one-third of the air. Don't take a colossal breath and try to hold it. Your chest muscles will be tight and tense, and tenseness will create fatigue and tremors.

Keep attention focused on your sights during the squeeze and immediately after. Note well if alignment remains perfect during the squeeze and immediately afterwards. Practice long and diligently until you can get a perfect squeeze with perfect sighting and with no sudden movements. The hammer fall must come as a totally unexpected and unpredicted surprise.

When you get quite proficient at sighting and squeezing, you are ready to try the identical procedure in actual shooting with your .22. Put up a piece of white paper 20 x 20 inches at 10 yards. Align your sights at what you judge to be the center of the paper and squeeze off your shots. Concentrate on (1) holding your breath during the squeeze and immediately thereafter, (2) proper sight alignment, and (3) perfect squeeze with an unexpected and unpredictable let-off. Note the exact position of the sight at the moment the gun fires and call your shots mentally. Fire ten shots, lowering your arms between shots, and take at least ten minutes for

the ten shots. Examine your group. Practice this exercise as often as you can but do not fire more than two or three groups at a session at the beginning. When all your ten shots can be covered by a five-inch diameter circle, move to 15 yards and continue the same procedure. (Cut a five-inch diameter circle out of a piece of old x-ray film or stiff cellophane and use it for your group tester.) Continue moving back until you make fairly consistent five-inch ten-shot groups at 25 yards. When you reach this stage, you have learned proper squeeze and proper sight alignment and you are well on the road to learning how to shoot!

So far we have not had you aim at a bullseye, purposely limiting you to sighting and squeezing. We are now ready to introduce you to the art of holding.

Let's go back to dry shooting now. Put up a bullseye or black spot and practice aiming at this spot without squeezing. Merely try to hold the gun with good sight alignment as steadily as you can, balancing the bullseye on the front sight in the conventional 6 o'clock hold. Line up your sights and edge the gun to the proper position, holding your breath. Try to hold as steadily as you can for a count of ten seconds at first, gradually increasing until you can hold the alignment to thirty seconds. Steadiness in holding is extremely important. It is dependent entirely on your state of physical and mental conditioning. Later we will show you how to improve your steadiness.

This is a perfect sight picture with a six o'clock hold, in which top of front sight aligns with bottom of bull

At this point of the game you will be introduced to what I call the shooters' dilemma. You will note that it is impossible to focus your eyes on both the bullseye and the sights simultaneously. It just can't be done. The proper procedure is to line up your sights and then bring them up properly aligned to the bullseye, which you will see by alternately focusing from sights to bullseye. For accurate shooting, eyes must be focused on the sights. Remarkable shooting can be done even if the bullseye appears as a blob of black, provided you see the sights distinctly. (For a more thorough discussion of the problem of vision, read my two-part article entitled "Eyesight," RIFLEMAN, June and July 1950.)

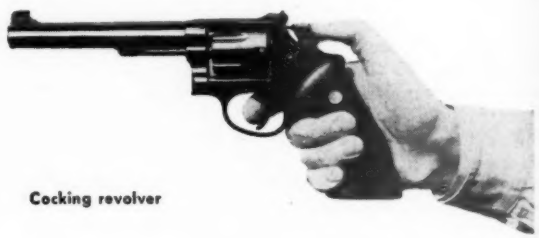
We are now ready to combine in dry shooting the factors discussed above, namely squeezing, sighting, and holding. Assume your correct shooting stance and practice dry shooting at a bullseye. It must be done carefully and deliberately or you will be wasting your time. Hold your breath and line up your sights. Then move the sights into the 6 o'clock position, settle down for an instant, and begin your squeeze. Try real hard to keep the gun from waving or swaying. However, no matter how hard you try, you can't hold it absolutely still. The trick of successful scores is to make sure the let-off comes at the precise instant that your sights are in perfect position. The trick involves terrific coordination. It cannot be done by snapping when you have a good aim. By the time your brain relays the message to fire to your trigger finger, your gun has moved and you will not get a good hit.

The only way we can get the let-off when we have the proper aim is to squeeze and apply pressure on the trigger only as we are moving into the proper position, and to hold the pressure and not apply any more as we are moving away from the proper position. It isn't easy!

Proceed to your range and put up the standard 25-yard timed and rapid fire target. Take your position at 20 yards and fire two or three ten-shot groups as before, i.e., deliberately and slowly, taking ten minutes for ten shots. Don't be alarmed if your former five-inch ten shot group has widened! The presence of the bullseye has become another mental hazard to overcome. Practice slow fire at 20 yards until you can average over 90 with no more than one or two shots out of the black (approximately five-inch diameter). Then move to 25 yards and continue your slow fire practice until you are again making good round groups with few wide shots, scoring 90 or better.

Don't expect steadily progressive improvement. Keep a record of your scores. When you begin to slump, go back to shooting at the white paper without bullseye and shoot until you are again making nice round five-inch groups before returning to the bullseye.

The same procedure should be repeated with each caliber. It is the most orderly and logical way to learn how to shoot. I would not advise shooting the .38 or .45 until you can average at least 90 slow fire at 25 yards with the .22.



Cocking revolver

Full cock

Firing revolver

When you can make 90's at 25 yards slow fire with the .22, it is then time to start your timed and rapid fire practice. In timed fire we are allowed 20 seconds, and in rapid fire 10 seconds, in which to get off five shots. Again, we should proceed in stages to learn timed and rapid fire.

First learn timed fire. Put up your white paper without bullseye and practice firing two consecutive shots without putting your arm down. Fire ten shots thusly in groups of two. Line up your sights, hold your breath, and squeeze carefully. Don't hurry the second shot. As soon as your first shot goes off, relax your trigger finger to permit the trigger to return and then immediately apply the pressure on the trigger and squeeze while you recover from recoil and re-align your sights. Use one breath for both shots.

When you can make five-inch groups or better at this exercise, try bursts of three shots. Now try to develop a cadence of one shot in three seconds. Do this by counting to yourself. Continue this type of practice until you can fire five shots without lowering your arm and make good round five-inch groups at 25 yards.

Now have someone actually give commands and time you, simulating all match conditions though still using the blank paper as a target. If possible, use a swinging target frame in this practice. After you have again reached your five-inch groups at 25 yards simulating all match conditions, then try shooting at the Standard American target. When you are able to average 90 or better, repeat the entire cycle for rapid fire practice.

A few more words about timed and rapid fire. The bullseye we shoot at is relatively very large. Therefore, we make the mistake of thinking we can hold easily and snap the trigger. Don't do it. Develop the co-ordination of a rapid squeeze as you approach the timing point and you will get off a good shot. Don't try to freeze the gun or immobilize it and then snap. It won't work. In line with this thought, apply your pressure to the trigger as you recover from the recoil. *Develop rhythm and cadence. In rapid fire* get off the first shot as quickly as possible as the targets turn and you will have ample time for the remaining four shots.

I have outlined step by step the procedure to be followed by the beginner. Go through the program carefully with your .22, then your center fire, and finally your .45. When you can average 270 in the slow, timed, and rapid, all at 25 yards, proceed to 50-yard slow fire practice and start as before, with a blank piece of paper, and work up to the use of a bullseye.

The progress you make will depend on the amount of time you put into your practice sessions, the seriousness of your application, and the number of tournaments you enter. Improvement is not steady nor smooth. You will make much more rapid improvement in the early stages than you will in later stages of your shooting career.

Here are some tips that will accelerate your progress. First, always practice under simulated match conditions. Don't fudge. Keep an accurate record of all your scores, good and bad! Secondly, gauge your progress not by your practice scores but by your tournament scores. Don't be deluded by high practice scores! Thirdly, get yourself in good physical condition. Condition your muscles so you can stand the grueling grind of tournament shooting.

A word about habits that are deleterious to good shooting. Time and again it has been shown experimentally that smoking will increase tremor and reduce steadiness. Most of our top men are non-smokers! The same applies to coffee. If you are a heavy indulger in coffee and tobacco, don't expect to be a top-notch pistoleer! Use your own judgment as to corrective action. In any event, it is advisable to reduce your tobacco and coffee consumption during a tournament.

Don't resort to alcohol as a steadier. It is merely a 'glass crutch' that gives you a spurious feeling of confidence. 'Buck fever' is something that will always be with us. Match harden yourself to reduce its effects (see "Nervous Huh?", RIFLEMAN, February 1950).

Proper grip of a handgun is a strong, firm one. A good hold does not result from tenseness of hand muscles

Your progress in tournament shooting will be easy to gauge by the successive advances in classification. Don't deliberately try to remain in the lower classes to win lots of medals. Reach out for the top class. I would not swap my Master rating for all the 'hardware' there is! You'll win fewer medals as you go up the classification ladder but the victories will be sweeter.

In your practice, be systematic. Concentrate on your weakest gun and your weakest stages. Again the best gauge of your weaknesses is your classification with each caliber. Bring your classifications in the three calibers up to par. Don't lag behind in any one.

One last word. If you are really serious about the game, you must make an all-out effort. This includes daily sessions of dry shooting, at least two or three actual shooting periods a week for each caliber, and at least six major tournaments a year plus winter league competition. Keep a careful record of all your averages and your best records with each caliber and each time you shoot try to beat your averages on your record.

In closing, then, we wish to conclude by emphasizing again that there is no short cut to the top, that you should not be discouraged by slow progress, and that you should attack the game in an orderly logical manner. Good luck to you! You'll love the game of tournament pistoleering! ♦ ♦ ♦

EARLY DAYS OF THE NRA

(Continued from page 41)

the affairs of the National Rifle Association were men who were either officers or ex-officers in the guard, it is difficult to understand his reason for this ruling. Its effect, however, was to put the National Rifle Association out of business by depriving it of the revenue from those matches, which was necessary to enable it to conduct its annual competitions, which had never paid expenses. There was every prospect that the Association and the annual matches which it had held for so many years would cease to exist unless some radical change was made.

At this time General Bird W. Spencer, President of the New Jersey State Rifle Association, came to the officers of the National Rifle Association and offered that if its matches should be transferred to Sea Girt, the New Jersey State Rifle Association would put them in its program, and would supply everything that was required to carry them on. This offer was eagerly accepted.

In pursuance of it, at the second annual meeting of the New Jersey State Rifle Association, in 1892, the National Rifle Association brought its matches to Sea Girt, where they were held on September 5 to 10 of that year. Thereafter they were held regularly at that place. As a result Creedmoor became practically unknown outside the State of New York, and Sea Girt took its place in the public eye.

After the matches of the National Rifle Association had been transferred to Sea Girt, there was nothing for the organization to do and it gave up its office and became dormant. I think that I was the only one of the surviving officers who gave it any attention, and what I did was confined to a perfunctory annual visit to Sea Girt at the time the matches were going on.

During 1899 the late Arthur C. Gould, at that time editor of *Shooting and Fishing* (the predecessor of THE AMERICAN RIFLEMAN), and Lieutenant Albert S. Jones, then secretary of the New Jersey State Rifle Association, initiated, through the columns of *Shooting and Fishing*, a movement looking toward the creation of a wider interest in rifle shooting by the formation of a national association. Their efforts culminated in a meeting of those interested in the project at the clubhouse of the New Jersey State Rifle Association during its fall matches of 1900. I opposed the plan strenuously on the ground that all that was desired could be obtained by the reorganization and revival of the National Rifle Association, and that it would be a great mistake to destroy its prestige and history. This met the unanimous approval of those present, and it was there decided to reorganize the Association.

Sir Henry Halford, a leading rifleman of Great Britain, captained English teams in Palma trophy matches during late 1800's

Cartoon lampooning U.S. teams' concern over sights used in Palma trophy matches appeared in Montreal newspaper after Britain won 1902 event

I accordingly called a meeting of the National Rifle Association at my office, and a reorganization was effected.

After this had been effected I felt that my work was done, and that I should step aside and let younger men take the helm. As General Spencer and his associates had been managing the matches of the Association, and had promoted the new organization, I and the surviving directors retired and General Spencer took my place as president. New by-laws were adopted and a new career of prosperity for the Association was entered upon.

General Spencer, his associates, and the State of New Jersey took charge of affairs of the National Rifle Association when its prospects were most discouraging, and by providing the accommodations which had been refused at Creedmoor and, by active hustling of all kinds, succeeded in bringing to Sea Girt riflemen from very many states. Moreover, they succeeded in interesting the public and the National Guard of different states in shooting, to such an extent as to lead to the passage by Congress of an appropriation out of which the expenses of the state teams to the national match could be provided for.

Thereafter, the Army, the Navy, and all the states were represented in the matches, rifle ranges were constructed all over the country, and the organization had become what its founders intended to be—the National Rifle Association of America. ◆ ◆ ◆

American Single-Shot Cartridge Pistols

(Continued from page 35)

ing calibers: .22 short rim-fire, .22 long rifle rim-fire, .32 S&W center-fire, and .44 S&W Russian. So balanced was their .50 caliber Army Model, from which their target pistols evolved, that even today many gun cranks like to alter them to smaller caliber target arms.

Placed on the market first in 1926, the Colt Camp Perry Model was later developed into a splendid target pistol. It was designed along the lines of the popular Colt's Officers Model and was made only in a 10-inch barrel length, according to a 1933 Colt catalog.

Not too well known is the New Model Target Pistol manufactured by Hopkins & Allen of Norwich, Conn. and listed in their 1912 catalog. It was listed in a 10-inch barrel length but the specimen illustrated has an unaltered 6-inch barrel. It has given a good account of itself in my basement range. The catalog also lists a New Model Skeleton Stock Target Pistol with an 18-inch barrel length, complete with an all-metal skeleton stock.

Another target pistol, which should be mentioned last but certainly not least, is the .22 caliber model manufactured by Harrington & Richardson of Worcester, Mass. It was called their U.S.R.A. Model, and had considerable following among the devotees of slow-shooting, single-shot pistols, many of whom considered it one of the finest target pistols ever produced.

MILITARY PISTOLS

Excluding the 1869 Springfield, which it is generally agreed was made only experimentally and never put into quantity production, there was only one other make of single-shot cartridge arm used by the United States Armed Services. It was the Remington, and it was made in three distinct models—the 1866 Navy .50 caliber rim-fire, the 1867 Navy .50 caliber center-fire, and the 1871 Army Model .50 caliber center-fire.

Fewer of the 1866 Model with the spur trigger were made than the later two models, and consequently it is much harder to find today. It was made with an 8½-inch round barrel. The barrel was shortened to 7-inches and a trigger guard added to the 1867 Model.

Upon the suggestion of the Army Ordnance Board, or rather the "St. Louis Commission" of that board, several changes were made in the 1867 Model. These changes resulted in the 1871 Army version. The main, and obvious, change was in the better balanced grip. However, three minor improvements were made internally—a firing pin retractor, rotating extractor, and the use of a stirrup instead of the direct contact between mainspring and hammer. It is this model that achieved considerable popularity due to its fine balance and easy grip. It is still being sought for rebarreling into smaller calibers.

Classed in the military division because it was a wartime production, is the crude all-metal single-shot item referred to as the Underground gun. This arm, using the regular .45 caliber automatic cartridge, was designed for distribution to foreign undergrounds during World War II. The only instructions accompanying it was a picture-graph showing how it operated. By means of this chart anyone, regardless of nationality, it was felt, should be able to fully understand its working. Ten cartridges were concealed within the grip. It was the intent that, after these ten cartridges had been fired, the gun was to be destroyed as being unfit for further use.

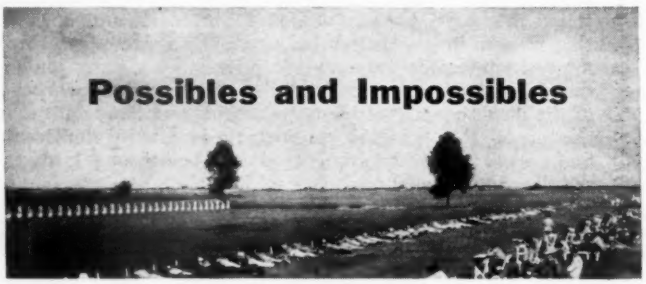
Thus ends another brief chapter in the saga of American cartridge arms of other days. Any list of single-shot arms given at this time would, at best, be incomplete. Heretofore unknown specimens are turning up every now and then. For instance, no mention has previously been made of W. Irving of New York producing a single-shot pocket pistol, yet the very interesting little specimen illustrated recently turned up quite unexpectedly. This is one of the reasons the study of old arms is so interesting—you never know what will turn up next. The writer will welcome any additional data on single-shot pistols of American manufacture. ♦ ♦ ♦

1) Remington Model 1867 Army .50
2) Remington Model 1871 Army .50
3) Underground pistol .45

A PAPER FOR PEOPLE WHO SHOOT

Rifle Reporter

VOL. 14, NO. 6 BRIDGEPORT, CONN., JUNE



"Heads down" is the formula to apply for better wing-shooting. The expert wing-shot makes sure that the gun stock is against his cheek before he pulls the trigger. This, with practice, becomes an instinctive movement that is one of the prime essentials in good shooting. Raising the stock to the cheek allows the shooter to gain a true "sight-picture" quickly, and helps him to refrain from making the all-too-common error of raising his head just before firing.

To get a proper "sight picture" in using a shotgun, the gun should be so placed against your shoulder and cheek that, when pointing it, very little, if any, of the top of the barrel is seen. By a simple little test, the shooter can quickly determine the value of this. For the test, use, if possible, a trap gun or one with a ventilated or raised rib, and set up a pattern paper 40 yards away. By properly aligning the rear bead with the front bead, you will find that the point of aim will be practically in the center of the pattern. By lining up the sights so that the front bead seems to be sitting on top of the rear bead, the shooter will find that the center of the pattern will be about eight inches above the point of aim. By allowing about four inches of the front part of the rib to show it will be seen that the center of the pattern is about twelve inches above the point of aim.

This does not mean that you will miss your target entirely every time you raise your head a bit. These examples of "head raising" are slight, yet the variance of pattern centers is enough to prove that things are not always as they seem when the shooter's head is even slightly raised.

Raising the head, with its consequence of shooting too high, has resulted in more crippled and lost game than, perhaps, any other shooting fault. Our most frequent error, it is the easiest to correct . . . if we will only remember to "KEEP THAT HEAD DOWN."

* * *

About the time you receive this copy of your "American Rifleman" many an avid handgunner will be lining up on the modern Sparrows Point Police Department Pistol and Revolver Club Range to test his skill in the "12th Annual Maryland State Revolver and Pistol Championships." The dates are June 1, 2, and 3. In the program announcing the matches, mention is made of the "Sparrows Point Possible Club," as follows: "A special plaque will be made and sent to the contestant who shoots a 'possible' in any of the 'Camp Perry' Matches. Up to now there are no members, making this the most exclusive club ever."

* * *

And speaking of Camp Perry, we received notification a short while back that the increasingly-more-impressive Camp Perry Championship Matches will get under way on August 25. Small and big bore shooters, and handgunners, who plan to attend should put a big red circle around this date on their calendars.

* * *

For trapshooters, the six most important days of the year are August 20 through 25—the dates set for this year's Grand American program. Preliminary days are August 17, 18, and 19.

* * *

Skeet shooters are already making plans for the trek to Dallas, Texas, for the year's top Skeet event, the National Skeet Championships. This year the all-important days are August 5 through 11.

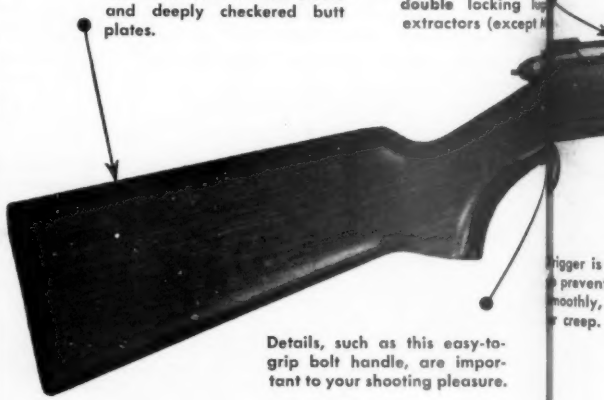
WHAT TO LOO

YOU'LL get mo, relax of that vacat mping take a 22 rifle t befo make sure you h d the r for the purpose n mind way to make th is to a these questions.

What will the rifle be used f answe and plinking (it usually a sturd gun is a logical choice. d equip peep sight or telescope essary plan to do some target You ca later if you decide you w (Rem Series" rifles (except) are tapped for telescopic m

The bolt action of o ries" rifle works quick. It has dou double locking lu extractors (except M

All Remington rifles have genuine American walnut stocks and deeply checkered butt plates.



Details, such as this easy-to-grip bolt handle, are important to your shooting pleasure.

rigger is preven moothly, r creep.

MODEL with d bolt, cial lo m gives Autom urdy an

ODEL 511 in the ne. Th featur el 510 magaz six sho

"Sportmaster" is Reg. U.S. Pat. Off. by Remington Arms Company, Inc., Bridgeport 2, Conn.

Remington News

WEATHER:
Pleasing as the lines of a Remington 22

ORT, CUT, JUNE, 1951 — First Class Reading Matter for Rifle and Pistol Shooters

OK FOR WHEN YOU BUY A 22

t mo, relaxing fun out vacat ping trip if you rifle t before you buy, rou h d the right 22 rifle pose y n mind. One good ke th is to ask yourself ions.

used t answer is hunting ually a sturdy all around oice. d equipment, sling, scope cessary unless you rget t You can add them you w (Remington "500 cept) are drilled and pic m

Does the rifle balance well? If the answer is "no" then look further. A rifle has to feel right, hold naturally. (Remington makes no miniature rifles. Even the low-priced models are full size and carefully designed to feel good in a shooter's hands.)

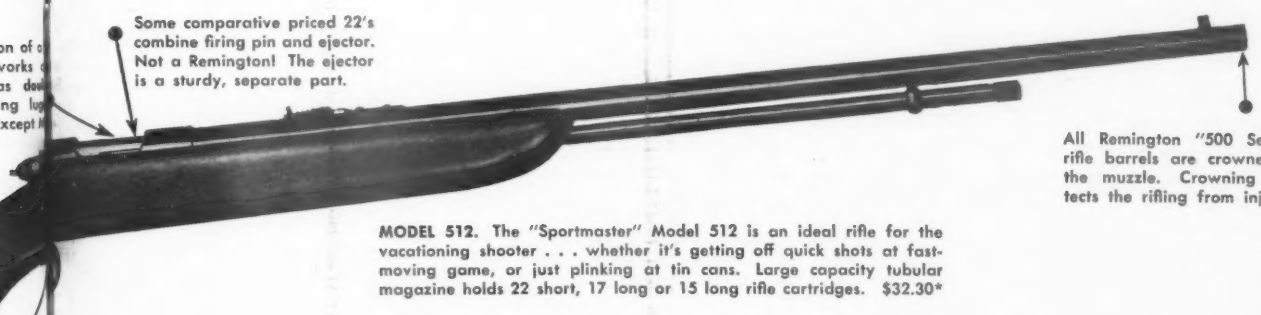
Is the rifle accurate? Chances are you won't have an opportunity to shoot it before you buy it. The manufacturer's reputation is your best guide. (Remington is America's oldest gunmaker. 135 years of experience back every Remington rifle sold.)

What is the best action? That question you'll have to decide for yourself . . . pump, bolt and autoloading rifles all have their advantages. Broadly speaking, the bolt action rifles are simpler and usually lower in price. (Remington makes all 3 popular actions.)

Is the finish good? Your eyes answer this. Be sure to note the fine, *detailed* craftsmanship on Remington "500 Series" rifles. All Remington rifles have American walnut stocks and rich blue-black finish.

What about dependability? There's more to a *good* 22 rifle than meets the eye. It must be made of sturdy materials capable of taking years of hard use. It must give safe, smooth, trouble-free operation. When you buy a Remington rifle you get all these features of rugged dependability . . . for a lifetime of shooting fun.

By all means check and compare before you invest in a 22 rifle. Below you'll see some of the popular models of the Remington "500 Series." Compare their features with other rifles in their price range . . . and with rifles costing more.

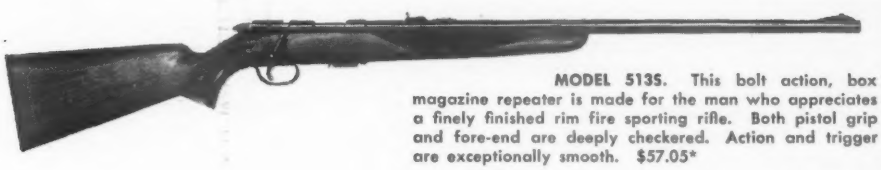


Some comparative priced 22's combine firing pin and ejector. Not a Remington! The ejector is a sturdy, separate part.

All Remington "500 Series" rifle barrels are crowned at the muzzle. Crowning protects the rifling from injury.

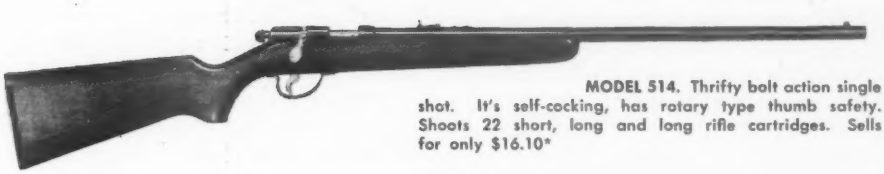
MODEL 512. The "Sportmaster" Model 512 is an ideal rifle for the vacationing shooter . . . whether it's getting off quick shots at fast-moving game, or just plinking at tin cans. Large capacity tubular magazine holds 22 short, 17 long or 15 long rifle cartridges. $32.30*

rigger is deeply corrugated prevent slipping. It works moothly, without back-lash r creep.



MODEL 513S. This bolt action, box magazine repeater is made for the man who appreciates a finely finished rim fire sporting rifle. Both pistol grip and fore-end are deeply checkered. Action and trigger are exceptionally smooth. $57.05*

MODEL 510. Streamlined single shot with d bolt, bolt handle and trigger. Special l gives straight line cartridge feed. Autom urdy and accurate, costs only $23.05*



MODEL 514. Thrifty bolt action single shot. It's self-cocking, has rotary type thumb safety. Shoots 22 short, long and long rifle cartridges. Sells for only $16.10*

OEL 511. The lowest-priced repeater in the ne. This rifle has the dependable featur 510 along with a detachable box maga six shots. $27.65*

MODEL 521T. Distinctly a fine low-priced target rifle. Comes complete with micrometer rear sight, adjustable front sling swivel and sling, beavertail fore-end, patridge type blade front sight. Weighs about 7 lbs. $42.70*

* Prices subject to change without notice.

THE SPOTTING SCOPE -- June 1951

John Scofield, managing editor of the RIFLEMAN, leaves the NRA for active duty with the army this month. His first assignment will take him to Palestine as a United Nations truce observer. Scofield is the fifth NRA staffman to return to active duty since the start of the Korean war . . . John Harper, associate editor of the RIFLEMAN, will take over as acting managing editor while Scofield is in the service . . . The new high-power decimal targets are now available for both the East Coast and West Coast distributors of official NRA targets . . . Plans for the ten regional and the national high-power rifle championships are about set. The full story is on page 51 . . . The Richland County Gun Collectors are playing host and sponsoring their third annual gun show at the Fairgrounds in Ashland, Ohio, on July 21 and 22. Gun collectors from all over the US are invited to attend and bring their guns or displays for sale or trade . . . E. C. Bishop & Son, Inc., of Warsaw, Missouri, world-famous makers of rifle and shotgun stocks, has new owners. The new bosses are John H. Pohl and Victor Mazochinni, of Warsaw, and Ernest C. Pohl, of Tulsa, Oklahoma . . . A recent five-day revolver practice shoot showed that four percent of the Louisville, Kentucky, police department of 500 men were armed with either defective sidearms or ammunition. Nineteen revolvers, all but one of them owned by the city, were in such condition that it was impossible to fire them . . .

The Committee on the District of Columbia of the US House of Representatives voted to remove from the DC Crime Bill the provision that would have required a prospective purchaser of a pistol to be photographed and fingerprinted and to obtain a purchase permit from the Chief of Police. NRA members did the job.

With the return of the high-power matches shooters will get their first chance in eleven years to compete for the trophies made famous during the prewar Camp Perry days . . . Most of the small-arms instructors at the Infantry School, Ft. Benning, Georgia, are enthusiastic members of the NRA and approve without qualification the NRA teaching methods. They advise their students to read the RIFLEMAN in order to keep up with smallarms development. No one should deny himself the privilege of seeing Sergeants Huntley and Lee of the Benning school staff fire the M-1 rifle if they are ever in the vicinity of the school. Their mastery of the weapon is almost unbelievable . . . The Outdoor Writers of America will convene in Escanaba, Michigan, at the end of this month for their annual convention . . . The first results of the RIFLEMAN readers' survey made by National Analysts of Philadelphia, Pennsylvania, will be announced in the next two months . . . All of the members of the Glenside Junior Rifle Club of Philadelphia recently visited NRA headquarters. The club members left the brotherly city at 4 A.M. arriving in Washington at 9. They left the same afternoon at 4:30 for the return trip, a tired but happy crowd of boys . . . Elmer Keith's home was ruined by fire last month. Among the losses were letters from NRA members. Give Elmer a breathing spell, and then resubmit your question if you don't hear from him in the near future.

1951 summer league shooting should be the biggest yet. With present-day high costs of living, it seems more and more people are shooting within short distances of home . . . Competitive target shooting in and around Atlanta, Georgia, is booming, and the Atlanta papers are devoting full pages to publicity to the sport . . . NRA staff members now in the service are stationed throughout the country. John Rose is at Colorado Springs Air Base, Bud Waite at Camp Hood, Texas, with the 1st Armored Division, Tom Child at Ft. Monmouth, N.J., and Claude Petrone at Parris Island, S.C. . . . Seven states can now boast of having 10,000 or more NRA members. They are California, Oregon, Washington, Michigan, Ohio, Pennsylvania and New York. The five states with 1,000 or more classified shooters are California, Illinois, Ohio, New York and Pennsylvania . . . The NRA now has 5651 certified rifle instructors and 1312 certified pistol teachers . . . Once again, don't forget to make your arrangements to attend the big NRA show in San Francisco this fall. The National Smallbore Rifle and Pistol Championships from September 29 to October 6, followed by the 3rd Members convention October 6 to 12.

Paul Cardinal

Marine Corps to Sponsor High Power Championships In San Diego, Sept. 27-30

It has just been learned that the Marine Corps will sponsor high power nationals at Camp Mathews, San Diego, California on September 27, 28, 29 and 30th. The Commandant of the Marine Corps, General C. B. Cates, in conjunction with the Commanding General Department of the Pacific, Lieutenant General C. B. Erskine, and the Commanding General Recruit Depot, San Diego, Major General W. T. Clement, is making every effort to arrange facilities, quarters, etc. which will be necessary.

In its April meetings the NRA Executive Committee heard the report of the Open Championship Committee and approved all the recommendations. This gave the "green light" for 1951 high-power national and regional championships.

Authority will be requested from the DCM to hold the National Trophy Individual Rifle Match and to award "legs" on the Distinguished Rifle medal. A request will also be made for the issue of M-1 rifles for this event.

Ten state high power championship match sponsors have been contacted by telephone and telegraph and asked to combine a regional aggregate with their program. All sponsors have been enthusiastic and a list of these 1951 high power regionals is shown below. The NRA will furnish regional prizes including a free trip for the winner to the Nationals and medal awards. It is also planned to use some of the old Camp Perry trophies in regional high power matches. Regional high power tournaments will be open to all (no boundary restrictions) but a shooter will only be permitted to compete in one regional championship aggregate.

As a result of programming the regionals with scheduled state championships, the programs will not be uniform and will be dependent upon local range facilities.

Regional programs should be requested from the sponsors indicated:

July 21-22—Regional High Power Match at BLUE TRAIL RANGE, CONN. Sponsored by Connecticut State Association, Inc., J. Russell Lent, Lyman Gunsight Corp., Middlefield, Conn.

Last week in July or first week in August —Regional High Power Match at CAMP CARSON, COLO. Sponsored by Local club or State Association, John M. Schooley, 540 Utica, Denver 4, Colo.

August 17-18-19—Regional High Power Match at PORTLAND, ORE. Sponsored by Oregon State R & P Association, R. L. Kirk, 3816 S. E. 33rd Avenue, Portland, Ore.

August 18-19—Regional High Power Match at FORT DOUGLAS, UTAH. Sponsored by Utah State Rifle & Pistol Ass'n., David P. Sugden, 3 North 7th Street, West, Salt Lake City, Utah.

August 18 and 19—Regional High Power Match at HELENA, MONTANA. Sponsored by: Montana Rifle Association, George Gilbertson, 1042 Taylor Street, Missoula, Montana.

August 18-19—Regional High Power Match at FORT SHERIDAN, ILLINOIS. Sponsored by Illinois State Rifle Association, Harold Williamson, 1922 W. Norwood Street, Chicago 26, Ill.

August 25-26—Regional High Power Match at TUCSON, ARIZONA. Sponsored by Arizona State Rifle Association, Don Amesbury, 4065 Montacito Street, Tucson, Ariz.

August 25-26-27—Regional High Power Match at CAMP PERRY, OHIO. Sponsored by Ohio State R & P Association, Ray T. Bayless, 3651 Trayham Road, Shaker Hts., Cleveland, Ohio.

September 1-2-3—Regional High Power Match at CAMP HUNTER LIGGETT, CALIFORNIA. Sponsored by California State R & P Association, George Laurenzo, 63 Second Street, San Francisco, Calif.

September 9—Regional High Power Match at CAMP RIPLEY, LITTLE FALLS, MINNESOTA. Sponsored by Minnesota State R & P Association, B. K. Soby, Fergus Falls, Minn.

As soon as the National High Power Championships are assured the program will be printed and made available to all who request them.

TRAINING SCHOOL REPORT

Approved NRA Basic Small Arms Training School Registration is nearing the 200 mark. Final class reports show 372 graduates. Following is a list of the states in which 5 or more Basic Small Arms Training Schools are being operated:

New York	19
Ohio	11
Washington	10
Colorado	7
Michigan	7
Illinois	6
New Jersey	6
Pennsylvania	6
California	5
Texas	5

Idaho, Massachusetts, Minnesota and Oregon each need one more school to be included in the listing.

ALL-AMERICAN TEAM NAMED

The All-American collegiate rifle team has been selected for 1951. The ten men named to receive Golden Bullets for excellence in match competition in the 1950-1951 school year are:

Thomas W. Atwood—Norwich University
Melville D. Bowers—Massachusetts Institute of Technology
Dwain A. Colby—University of Washington
Woodward G. Eicke—George Washington University
Charles R. Gillespie—U. S. Naval Academy
Stewart Paterson, Jr.—U. S. Military Academy
Daniel B. Puckel—University of Tennessee
Murray M. Rubinow—University of California at Los Angeles
Allen B. Tanner—Massachusetts Institute of Technology
Herbert B. Voelcker—Massachusetts Institute of Technology

Five of the ten men on the team are previous All-American selections. Melville D. Bowers, Massachusetts Institute Technology, was on the 1948 team. Woodward G. Eicke, George Washington University, winner of the individual intercollegiate championship in 1949, was named to the 1949 team, and was selected for the second team in 1950. Herbert B. Voelcker, also of MIT, won the individual collegiate championship in 1950 with a 293 score (95 standing) and was picked for the All-American team for that year. Dwain A. Colby, University of Washington, was also selected for the 1950 All-American team. Allen B. Tanner, MIT, was named to the second team in 1950.

The other five collegiate shooters are to receive All-American Golden Bullet awards for the first time this year.

Only one man on the second team was on last year's All-American first team—Thomas A. Breen, University of Vermont. Other members of the 1951 second team are on the team for the first time. Those collegians on the second team are:

David L. Bakalar—New York University
Guy W. Belleman—University of Washington
Thomas A. Breen—University of Vermont
Robert D. Bluntzer, Jr.—Georgetown University
Glenn W. Greene—University of Tennessee
John L. Kelley, Jr.—University of Maryland
Dean May—University of Maryland
Roy E. Oster—University of Maryland
Anthony Sherman, Jr.—University of San Francisco
Henry L. Woltman—University of Minnesota

Though Massachusetts Institute of Technology is the only school with two men on the All-American team this year, the University of Maryland is represented on the second team by three shooters, two of them, John L. Kelley, Jr., and Roy E. Oster, accomplished smallbore tournament competitors. In 1948 Kelley won the Southeastern rifle regional with 3180-183X and in 1949 he won the Rocky Mountain regional with 3181-202X. Oster is well known in tournament circles in and around Pennsylvania, having won or placed in numerous competitions.

NATIONAL JUNIOR CHAMPIONSHIPS

John T. Harrell, 16, of 3201 North 22nd Street, Arlington, Va., a student at St. John's College, Washington, D. C., won the national individual junior rifle championship fired on April 21 with a score of 192. Competing at College Park, Maryland (there were 46 other sectionals), Harrell's amazing offhand score of 94 enabled him to win out over 2,914 junior shooters who entered the championship meet, outranking three shooters who also tallied 192 over the twenty-shot course. Ranking second to Harrell with 192 was Robert C. Bailie of East High boy's rifle team of Denver, Colorado. Gordon Vanderstel of the Kent League Junior Rifle Club of Grand Rapids, Michigan was third with 192 fired at the sectional in Ann Arbor, Michigan. Harry R. Kaess of New York City, a member of the B-24 Marine Detachment Junior Rifle Club, also scored 192. Fifth with 191 was Don R. Knapp of Hamden, Conn., High School rifle team.

The national junior team match was won by Xavier High School team No. 1 of New

York, New York with 758. Xavier was also the high team in the Military scholastic class. Second with 749 was the Jr. Division of Piscataqua Rifle and Revolver Club, Portsmouth, New Hampshire, which was also high team in the non-scholastic class. Winner in the non-military scholastic class with 740 was the Valley Stream Central team No. 1 from Valley Stream, New York. Team winner in the girls class was the Trojan Junior Rifle Club of Portsmouth, Ohio, which had a group score of 714.

COMING EVENTS

Tournaments and other important events listed below include all National, Regional and State Championships that have been registered with the NRA. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1951. Only state championships are listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

OCTOBER

6-12, 1951—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

SEPTEMBER

29-Oct. 6, 1951—Pistol and Revolver at Police Department Range. San Francisco, California. Programs available from NRA.

OCTOBER

3-6, 1951—Smallbore Rifle at San Francisco, California. Programs available from NRA.

1951 REGIONAL SMALLBORE

JUNE

23-24 WACO, TEXAS—Southwestern Regional Smallbore Rifle Championship. Mr. B. Ramsey Powell, Citizens National Bank, Waco, Texas.

30-July 1 DES MOINES, IOWA—Midwestern Regional Smallbore Rifle Championship. Mr. Howard D. Smith, 405 E. 2nd Street, Des Moines, Iowa.

JULY

7-8 ANACONDA, MONTANA — Northwestern Regional Smallbore Rifle Championship. Mr. Fred J. Mesenko, 700 Oak Street, Anaconda, Montana.

14-15 MIDDLEFIELD, CONNECTICUT — Northeastern Regional Smallbore Rifle Championship. Mr. J. Russell Lent, Middlefield, Connecticut.

21-22 SAN FRANCISCO, CALIFORNIA — South Pacific States Regional Smallbore Rifle Championship. Dr. Chas. J. Parshall, 530 Fulton Street, San Francisco, California.

AUGUST

4-5 BALTIMORE, MARYLAND — Middle Atlantic States Regional Smallbore Rifle Championship. Mr. Joseph N. Schlick, 605 Radnor Avenue, Baltimore 12, Maryland.

4-5 KNOXVILLE, TENNESSEE — Southeastern Regional Smallbore Rifle Championship. Mr. A. W. Nine, 104 Underwood Place, Knoxville, Tennessee.

4-5 BRISTOL, INDIANA—North Central Regional Smallbore Rifle Championship. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend, Indiana.

4-5 LAFAYETTE, COLORADO—Rocky Mountain Regional Smallbore Rifle Championship. Mr. E. L. Mathes, 4855 Irving Street, Denver, Colorado.

11-12 SEATTLE, WASHINGTON—North Pacific States Regional Smallbore Rifle Championship. Mr. C. M. Styer, 3447 41st Avenue, S. W., Seattle, Washington.

1951 REGIONAL PISTOL

JUNE

15-16-17 HOUSTON, TEXAS — Southwestern Regional Pistol Championship. Mr. Frank L. Ratcliffe, 1319 W. Pierce, Houston 6, Texas.

JULY

6-7-8 HARRISBURG, PENNSYLVANIA — Middle Atlantic States Regional Pistol Championship. Mr. F. H. Wells, 3800 Hillcrest Road, Harrisburg, Pennsylvania.

14-15 POUGHKEEPSIE, NEW YORK — Northeastern Regional Pistol Championship. Mrs. Martha W. Strahan, 30 Arnold Boulevard, Poughkeepsie, New York.

21-22 DENVER, COLORADO—Rocky Mountain Regional Pistol Championship. Mr. Oscar R. Mains, 2432 W. Argyle Place, Denver, Colorado.

AUGUST

3-4-5 LOS ALAMOS, NEW MEXICO — Far Southwestern Regional Pistol Championship. Mr. George R. Irwin, Atomic Energy Protective Force, Los Alamos, New Mexico.

10-11-12 ST. LOUIS, MISSOURI—Midwestern Regional Pistol Championship. Mr. Frank Stubits, 5507 Lisett Avenue, St. Louis 9, Missouri.

11-12 BOISE, IDAHO—Northwestern Regional Pistol Championship. Mr. Emily Davidson, Route 3, Boise, Idaho.

17-18-19 JACKSONVILLE, FLORIDA—Southeastern Regional Pistol Championship. Mr. C. A. Brown, Jacksonville Police Department, Jacksonville, Florida.

17-18-19 RAYMOND, WASHINGTON—North Pacific States Regional Pistol Championship. Mr. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington.

18-19 BRIGHTON, MICHIGAN—North Central Regional Pistol Championship. Mr. Charles H. Drew, 12345 9 Mile Road, South Lyon, Michigan.

1951 REGIONAL .30 CALIBER

JULY

21-22 or August 4-5 BLUE TRAIL RANGE, CONNECTICUT. J. R. Lent, Lyman Gunsight Corporation, Middlefield, Connecticut.

Last week in July or first week in August CAMP CARSON, COLORADO. Sponsored by State Association.

AUGUST

18-19 HELENA, MONTANA. Mr. George Gilbertson, 1042 Taylor Street, Missoula, Montana.

17-18-19 PORTLAND, OREGON. Mr. R. L. Kirk, 3816 S. E. 33rd Avenue, Portland, Oregon.

18-19 FORT DOUGLAS, UTAH. Mr. Ralph K. Walker, 877 No. Maine, Nephi, Utah.

18-19 FORT SHERIDAN, ILLINOIS. Mr. Harold Williamson, 1922 W. Norwood Street, Chicago, Illinois.

25-26 TUCSON, ARIZONA. Sponsored by State Association.

25-26-27 CAMP PERRY, OHIO. Ray T. Bayless, 7301 Euclid Avenue, Cleveland, Ohio.

SEPTEMBER

1-2-3 CAMP HUNTER LIGGETT, CALIFORNIA. D. Q. Jackson, Jr., 1350 5th Avenue, San Francisco, California.

9 CAMP RIPLEY, MINNESOTA. B. K. Soby, Fergus Falls, Minnesota.

STATE CHAMPIONSHIP TOURNAMENTS

JUNE

2-3 TEXAS—Texas State Rifle Association Annual Championship Smallbore Rifle Matches at Austin, Texas. Neal Hilley, Box 77 Route #4, Dallas, Texas.

2-3 FLORIDA—Florida State Pistol Championship at Tampa, Florida. Mr. C. A. Brown, P. O. Box 253, Tampa, Florida.

1-2-3 MARYLAND—12th Annual Maryland State Revolver and Pistol Championship at Sparrows Point, Maryland. Chief Marcus H. Miles. Sparrows Point Police Pistol and Revolver Club, Sparrows Point, Maryland.

2-3 IDAHO—10th Annual Outdoor Rifle State Tournament at Boise, Idaho. Mr. Emily Davidson, Route #3, Boise, Idaho.

9-10 UTAH — Utah State Smallbore Rifle Tournament at Layton, Utah. Frank J. Sibbett, Kaysville, Utah.

10 IOWA—Iowa State Pistol Tournament at Bettendorf, Iowa. Gene E. Taylor, 1219 Davie Street, Davenport, Iowa.

10 VIRGINIA — Virginia State Hi-Power Championship at Newport News, Virginia. J. W. Courtney, Jr., 644 Briarfield Road, Newport News, Virginia.

9-10 COLORADO—Colorado State Smallbore Rifle Tournament at Lafayette, Colorado. Mr. Raymond E. Eckley, 201 South Alcott, Denver, Colorado.

9-10 KENTUCKY—13th Annual Kentucky State Pistol Championship at Louisville, Kentucky. Mr. Harry M. Wheat, Secretary, Louisville Rifle and Revolver Club, 4633 South First Street, Louisville, Kentucky.

9-10 OREGON—Oregon State Rifle and Pistol Association Smallbore Rifle Championships at LaGrande, Oregon. Mrs. Marion R. Petersen, Route #1, LaGrande, Oregon.

9-10 ARKANSAS—9th Arkansas State Pistol Tournament at Little Rock, Arkansas. Mr. Gerland P. Patten, 521 Pyramid Building, Little Rock, Arkansas.

10 IOWA—Iowa State Pistol Tournament at Bettendorf, Iowa. Mr. Gene E. Taylor, 1219 Davie Street, Davenport, Iowa.

15-16 NORTH CAROLINA — 15th Annual North Carolina State Smallbore Championship at Conover, North Carolina. Henry L. Ford, P. O. Box 2402, Hickory, North Carolina.

16-17 WASHINGTON — Washington State Smallbore Championship at Opportunity, Washington. Mrs. Mary Holt, N. 4118 Howard Street, Spokane Washington.

16-17 CALIFORNIA—California State Smallbore Rifle Championship at Fresno, California. D. Q. Jackson, 1350 5th Avenue, San Francisco, California.

16-17 CONNECTICUT—2nd Annual Connecticut State Pistol Championship at Rocky Hill, Conn. George G. Ledder, P. O. Box 19, Rocky Hill, Conn.

24 COLORADO—Colorado State Pistol Championship at Denver, Colorado. Mr. Oscar R. Mains, P. O. Box 111, Denver, Colorado.

24 MINNESOTA—Minnesota State Outdoor Smallbore Championship at Virginia, Minnesota. Laurence R. Cundy, Virginia, Minnesota.

23-24 MISSOURI — Missouri State Pistol Championship at St. Louis, Missouri. Frank Stubits, 5507 Lisette Avenue, St. Louis, Missouri.

24 TENNESSEE—Tennessee State Pistol Championship at Nashville, Tennessee. Mr. Thomas N. Collier, Jr., Nashville, Tennessee.

24 IDAHO—6th Annual Outdoor Pistol State Tournament at Boise, Idaho. Mr. Emily Davidson, Route #3, Boise, Idaho.

JULY

7-8 INDIANA—4th Annual Indiana State Pistol Championship Tournament at Bristol, Indiana. Mrs. Garnette R. Homer, 1115 North Huey Street, South Bend, Indiana.

15 WISCONSIN—Wisconsin State Smallbore Championship at Sparta, Wisconsin. Earl J. Lucas, 801 N. Water Street, Sparta, Wisconsin.

14-15 WEST VIRGINIA—Mountain State Rifle Tournament at Parkersburg, West Virginia. Mr. R. A. Simpson, 212 W. 10th Street, Parkersburg, West Virginia.

15 NORTH DAKOTA—9th Annual State Pistol Match at Devils Lake, Camp Grafton, North Dakota. Mr. J. W. Aitken, Overly, North Dakota.

21-22 NEW JERSEY—13th Annual New Jersey State Pistol and Revolver Championship at South River, New Jersey. Frank Svec, Box 42, Leonia, New Jersey.

22 VIRGINIA—Virginia State Outdoor Smallbore Rifle Championship at Norfolk, Virginia. J. D. Belding, 38 Fiske Street, Cradock, Virginia.

22 CONNECTICUT—Big Bore Individual State Championship at East Wallingford, Connecticut. J. Russell Lent, Middlefield, Connecticut.

22 MAINE—State Championship Smallbore Rifle Matches at Damariscotte, Maine. M. F. Dunphey, 9 Bowdoin Place, Bangor, Maine.

28-29 MICHIGAN—Michigan State Pistol Championship Matches at Flint, Michigan. Mr. Kenneth Gilman, 1330 Begole Street, Flint, Michigan.

28-29 MONTANA—Montana State Pistol Championship at Great Falls, Montana. Dr. R. E. Englert, 1405 4th Avenue, North, Great Falls, Montana.

29 VERMONT—Vermont State Pistol and Revolver Tournament at Northfield, Vermont. Jean M. Peatman, 16 Elm Street, Montpelier, Vermont.

28-29 MICHIGAN—42nd Annual Michigan State .30 Caliber Rifle Matches at Camp Grayling, Michigan. Mr. Walter C. Franke, 432 E. Lafayette, Detroit 26, Michigan.

AUGUST

18-19 OREGON—Oregon State High Power Rifle Championship at Portland, Oregon. Mr. R. L. Kirk, 3816 S. E. 33rd Avenue, Portland 2, Oregon.

19 NEW YORK—New York State Smallbore Championship at Hicksville, Long Island, New York. Mr. Val B. Cleaver, P. O. Box 356, Hicksville, Long Island, New York.

19 MINNESOTA—Minnesota State Outdoor Pistol Championship at St. Paul, Minnesota. Mr. Cy B. Wood, 2048 N. Cleveland, St. Paul 8, Minnesota.

25-26 NEW MEXICO—New Mexico State Championship at Cimarron, New Mexico. Mr. Roy E. Triplett, Cimarron, New Mexico.

25-26 UTAH—Utah State .30 Caliber Rifle Championship at Salt Lake City, Utah. Mr. Ralph K. Walker, 877 North Main, Nephi, Utah.

25-26-27 OHIO—Ohio State Individual and Team Championship at Camp Perry, Ohio. Mr. Ray T. Bayless, 7301 Euclid Avenue, Cleveland 3, Ohio.

26 CONNECTICUT—14th Annual State Championship at East Wallingford, Connecticut. Mr. J. Russell Lent, Middefield, Connecticut.

29-30-31 & Sept. 1-2-3 OHIO—Camp Perry Championship Matches at Camp Perry, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio.

Recommend Your NRA Director!

PRESENT DIRECTORS

PERMANENT MEMBERS OF THE EXECUTIVE COUNCIL AND ASSOCIATION OFFICERS

Brig. Gen. Fred M. Waterbury (New York)
Brig. General Benedict Crowell (Ohio)
Mr. Karl T. Frederick (New York)
Mr. Gustavus D. Pope (Michigan)
Major Gen. L. W. T. Waller, Jr. (Pa.)
Mr. N. C. Nash (Massachusetts)
Judge Hilliard Comstock (California)
Colonel F. C. Endicott (D. C.)
Mr. Thurman Randle (Texas)
Mr. F. W. Parker, Jr. (Illinois)
Lt. Gen. Julian C. Smith (Virginia)
Major Gen. M. A. Reckord (Maryland)
Dr. E. O. Swanson (Minnesota)
Mr. L. F. Lucas (Treasurer)
Mr. F. L. Wyman (Secretary)

TERMS EXPIRE 1951

Mr. L. W. Abrams (Florida)
Mr. James Affleck (Pa.)
Mr. P. D. Andrews (New York)
Mr. C. A. Brown (Florida)
Mr. Charles Code (Pa.)
Mr. Stuart C. Edmonds (Oregon)
Mr. W. Owen Keller (Kentucky)
Mr. O R. Landet (Montana)
Mr. Harry D. Linn (Iowa)
Mr. J. J. Ring (Tennessee)
Colonel James F. Strain (D. C. M.)
Mr. C. F. Sterbutzel (Pa.)
Mr. C. M. Styer (Washington)
Mr. Frank Svec (New Jersey)
Mr. Harry P. Swing (Pa.)
Mr. Kinsey J. Voorhees (California)
Mr. George Whittington (Texas)
Mr. Russell I. Wisler (California)
Mr. Wilbur Withrow (Illinois)
Mr. Clarke L. Wilson (Nebraska)

TERMS EXPIRE 1952

Mr. J. Alvin Badeaux (Louisiana)
Mr. Ray T. Bayless (Ohio)
Mrs. Alice Bull (Washington)
Mr. G. E. Damon (Colorado)
Inspector Marvin Driver (Michigan)
Mr. Emile J. Dutil (California)
Mr. Malcolm B. Edwards (Washington)
Mr. Howard C. Johnson (Arizona)
Mr. Carl Kastner (New Jersey)
Mr. Robert L. Kirk (Oregon)
Mr. A. L. Maloche (California)
Captain M. C. Mumma, USN (Virginia)
Mr. Thomas D. Park (Texas)
Mr. Frank T. Parsons, Jr. (D. C.)
Mr. Robert Perkins (California)
Mr. Irvine C. Porter (Alabama)
Mr. John M. Schooley (Colorado)
Mr. Waldo Scagly (Indiana)
Mr. Farley Tubbs (Michigan)
Lt. Col. Walter R. Walsh, USMC (Virginia)

TERMS EXPIRE 1953

Mr. Thomas M. Blakemore (Illinois)
Mr. D. J. Bolton (Oregon)
Dr. R. G. Carl (Oklahoma)
Mr. Frank C. Crocker, Jr. (Massachusetts)
Major General M. A. Edson (Vermont)
Dr. Roy Freeman (Missouri)
Mr. Don R. Gillies (Michigan)
Mr. Donald B. Hilliker (New York)
Mr. H. R. Jacobs (California)
Mr. E. R. Lamster (South Dakota)
Mr. William E. Lawrence (Boy Scouts)
Mr. John G. Lenz (Maryland)
Mr. C. B. Lister (at large)
Mr. Roland V. Manning (Washington)
Mr. Edward McDaniel (New Mexico)
Mr. L. A. Pope (California)
Dr. Henry J. E. Reid (Virginia)
Mr. Dexter F. Rhodes (Wisconsin)
Mr. B. K. Soby (Minnesota)
Mr. David Sugden (Utah)

The 1951 Nominating Committee needs your help in selecting qualified persons to serve on the NRA Board of Directors. Recommend for nomination a representative who—

a) is the type person *you* want to have a voice in the control of *your* Association—consisting of a quarter-million members and several thousand affiliated clubs . . .

b) has the broad experience and background to properly weigh and evaluate questions of policy on a nation-wide basis . . .

c) has the time to devote to Association activities—attend committee meetings, legislative hearings, tournaments and to make personal contacts . . .

d) is favorably and widely known and respected by NRA members and other good citizens of his area.

(See page 54)

TO THE 1951 NOMINATING COMMITTEE:

1600 Rhode Island Ave., N.W., Washington 6, D. C.

I recommend the following individual for consideration as a nominee for election to the NRA Board of Directors at the 1951 Annual Members' Meeting.

1. Name ..... Age .....
   Home Address .....
   City ..... Zone ..... State .....
2. Occupation or Profession ..... Position .....
   Firm Name .....
3. Active Shooting Interests: ☐ Big Bore ☐ Small Bore ☐ Pistol ☐ Training ☐ Junior Work ☐ Hunting ☐ Club Organization ☐ Firearms Legislation
4. Active Membership in shooting organizations:

(Organization)	(Offices Held)	(Dates)
.....	.....	.....
.....	.....	.....

5. Active Membership in non-shooting organizations:

(Organization)	(Offices Held)	(Dates)
.....	.....	.....
.....	.....	.....

6. Area of NRA Activities:
   ☐ City ☐ County ☐ State ☐ Nationwide ☐ International
7. Other Qualifications: .....
   Enclose picture and additional information, if available.

Recommended by: .....

Address: .....

.....

Mail to reach NRA by July 10, 1951. ***Additional forms on request.***

DIRECTORS NOMINATIONS

NRA Members Meeting — **St. Francis Hotel**

SAN FRANCISCO, CALIFORNIA — **WEDNESDAY, OCTOBER 10, 1951**

1951 DIRECTORS NOMINATING COMMITTEE

Marvin Driver, Chairman
Carl Kastner, Vice Chairman
L. A. Pope, Los Angeles, California
B. K. Soby, Fergus Falls, Minnesota
Lt. Col. Walter Walsh, USMC
R. L. Kirk, Portland, Oregon
George Laurenzo, San Francisco, California
Vernon Wood, Zanesville, Ohio
Harry Black, Des Moines, Iowa
C. L. Theed, Coral Gables, Florida
John L. Southcotte, Colorado Springs, Colo.

This will be the first year that the nomination procedure for election of Directors, which was adopted as part of the new Association bylaws during the 1950 Directors Meeting, will be used.

Article Three, Section 3 of the Bylaws, which governs this procedure, is printed below:

"Section 3.—Notice of Elections, Nomination Recommendations.

(a) The Secretary shall, at least one hundred and twenty (120) days prior to the date of each annual meeting, notify all individual and organization members of the date and place of the annual meeting and as to the provisions of these bylaws relative to the nomination and election of Directors. The notice shall be accompanied by a blank form requesting the recommendation of suitable nominees to be considered by the Nominating Committee. An individual or organization member may make more than one recommendation.

(b) Recommendations for nomination must be returned in such time as to be in the hands of the Secretary not later than ninety (90) days prior to the date of the annual meeting. The Secretary shall transmit the recommendations to the Nominating Committee.

(c) The Nominating Committee shall select from among the members entitled to hold the office of Director a list of nominees containing not less than as many names as there are vacancies to be filled. The list of nominees selected by the Nominating Committee shall, at least thirty (30) days prior to the date of the annual meeting, be published in the official journal of the Association.

(d) After publication of the list of nominees selected by the Nominating Committee each member entitled to vote may make one additional formal nomination. Such nomination must be in writing seconded by the personal signatures of five members entitled to vote and must set forth all the information regarding the nominee required by the Nominating Committee on the blank furnished for the recommendation of nominees as provided in Section 3 (a) of this Article. Such additional nomination must be delivered to the Secretary not later than forty-eight (48) hours prior to the time of the annual meeting of members. There shall be no nominations from the floor of the annual meeting.

(e) At least twenty-four (24) hours prior to the time of the meeting the Secretary shall cause to be displayed on a suitable bulletin board at the place of the annual meeting the list of nominees and their qualifications selected by the Nominating Committee and the additional nominations and their qualifications made in accordance with subparagraph (d) of this section.

(f) Voting shall be by printed ballot or by voting machine. If by printed ballot they shall indicate the names of all nominees proposed by the Nominating Committee and the names of all additional nominees nominated as provided in subparagraph (d) of this section. Ballots which are not clearly marked by the voter and ballots containing votes for more than the number who are to be elected Directors shall be invalid. Ballots containing votes clearly marked for less than the number of Directors to be elected shall be valid.

(g) Prior to the annual members meeting the president shall appoint a Committee on Elections to conduct the election of Directors.

(h) The Committee on Elections shall cause a suitable polling place to be erected adjacent to the bulletin board referred to in sub-paragraph (e) of this section. Such committee shall establish by check-off list and the voter's signature a member's eligibility to vote prior to voting. One ballot initialed by the committee member who issues it shall be delivered to each eligible voter who shall apply for such ballot. Each voter shall enter the polling place, properly mark the ballot and deposit it in the ballot box. The polls shall be open from 8:00 A.M. on the day of the regular annual meeting until the time the meeting is called to order. The ballot boxes shall be sealed by the chairman of the Committee on Elections prior to the opening of the polls in the presence of not less than three members entitled to vote. The seals shall be broken when the polls have finally closed, in the presence of not less than three members entitled to vote. The Committee on Elections shall serve as election tellers and the chairman of the committee shall announce the results of the election when called upon to do so by the chairman at the annual meeting of members."

All Association members should review the list of their NRA acquaintances and then recommend to the Nominating Committee those who are best qualified to serve as Directors.

All present Directors are listed—do *not* recommend anyone whose term expires in 1952 or 1953—they will continue in office until the Members Meeting in the respective year. Directors in the 1951 expiration list however go out of office at this year's Members Meeting and must therefore be returned to that office on October 10th or be replaced.

Dope Bag

answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • Al Barr • Elmer Keith
Harold MacFarland • Phil Sharpe • Hugh C. Stith

OLD-TIME CARTRIDGES

Recently I had the opportunity to fire some cartridges that had been in a cartridge belt since 1908. A friend of mine, Colonel F. S. Allen, had recently acquired a Colt New Navy revolver with belt and holster, and the loops of the cartridge belt were filled with .38 long Colt cartridges dated 1903, 1905, and 1908.

These cartridges were so thickly covered with verdigris that it was hard to push them into the cylinder, but after cleaning some of them off enough to get them into the chambers we fired twenty rounds of this old ammunition, all of which functioned perfectly without a sign of a misfire or a hangfire.

Colonel Allen had also acquired another old relic; a Model 1911 .45 automatic pistol with serial number in the 6000 series, apparently one of the very early ones made. With it were five magazines which had been loaded since World War I.

The first magazine contained Frankford Arsenal cartridges dated May and June 1911, all of which fired perfectly. The second magazine contained Winchester cartridges with the 200-grain bullet instead of the 230-grain bullet. These all fired, but seemed slightly weak, as there was one failure to extract and one failure to eject. The slide appeared to fail to come all the way to the rear. The third magazine contained FA 1915 cartridges and gave no malfunctions. The fourth and fifth magazines contained U. S. Cartridge Company ammunition dated 1917. They seemed to have very hard primers, for the primer indentation was very light. One primer had to be struck twice to fire it, and another gave a distinct hangfire.

This shooting did demonstrate that magazines of the .45 automatic can apparently be left loaded for some thirty-three years without weakening the spring enough to cause any magazine failures.—JULIAN S. HATCHER.

HANDLE CYANIDE WITH CAUTION

The attention of readers should be called to the danger involved in handling cyanide eggs. They were mentioned in a Dope Bag article on bluing (April), and advertised for sale for use in bluing solutions by a large gunsmith supply house, in an earlier issue.

Most people seem to know that potassium cyanide and sodium cyanide are very poisonous. But, one need not swallow cyanide to die swiftly and suddenly. It can kill by entering the body through a scratch or cut, or through the mucous membranes.

A few years ago, a chemistry student at the University of Wisconsin spilled a few drops of potassium cyanide on his fingers. Later, having forgotten to wash his hands thoroughly, he rubbed his eye with his finger. He fell dead.

Some years ago, several workmen from the Ford Motor Company's heat-treating department hurried to a lunch wagon, not bothering to wash their hands, which had touched steel products contaminated with cyanide. While eating their sandwiches, two men dropped dead.

It is apparent that the use of cyanide compounds is extremely dangerous, and should be avoided.—ROBERT JONES, New York, N. Y.

CARBINE ACCURACY

I have gotten tired of hearing so-called experts complain of the lack of accuracy of the U. S. Carbine, Caliber .30 M1, stating that you could not hit your hat at 100 yards with one of them, etc. . . . Recently I was lucky enough to get an opportunity to experiment with a carbine. I mounted scope blocks; the rear one went in the rear sight slot, the front mount was a clamp and integral dural block mounted as far back as the round part of the barrel would permit. After trying a lot of bedding combinations, I found that accuracy was best when the barrel practically floated in the front barrel band. I experienced no difficulty in obtaining near minute of angle accuracy at 100 yards. Out where I live most hats are larger than one inch in diameter.—NED E. CUTTING, Glendale, California.

Photograph is an exact size reproduction of a group fired at 100 yards with a tuned and scope sighted U. S. Carbine, Caliber .30 M1

FLUORESCENT PLASTIC SIGHTS

We have had several very favorable comments on the use of a fluorescent type plastic material for making front sights for rifles and handguns. About a year ago we reported on the performance of a fluorescent plastic bead front sight made by Frank Balzer, 120 N. Tenth St., Miamisburg, Ohio. These sights had been proven under various light conditions, including late in the evening in poor light.

Recently we have received a report of almost identical material being used for handgun sights, by Mark Hettinger, Route 2, West Alexandria, Ohio. The Metropolitan Firearms Co., 155 Canal St., New York, N. Y., also has been experimenting with similar material for inserts in the front sights used with their Metro-Ramp. The fluorescent material is definitely more brilliant in appearance than the conventional red bead or red post, which has been popular for many years for field shooting. All reports on the use of the fluorescent plastic in sights have very favorable and it is becoming a favorite material, especially for use in poor light.

Mr. Hettinger tells us this type of material is used extensively in advertising signs and car ornaments.

From certain angles the plastic appears to be between a red, pink and orange color, the colors varying slightly, depending on the angle from which it is viewed. When made up into a sight the brilliant color remains constant.—AL BARR.

CHROME FINISH ON WALTHER PPK

I have a Walther PPK 7.65 mm., automatic pistol which has become rather holster worn. Is it safe to have this gun nickel plated, or would this interfere with the functioning because of the close tolerances? Who is competent to do such a job well? —W. F. BARROW, San Luis Obispo, Calif.

Answer by Harold MacFarland: I think you would get into trouble if you had that pistol nickel plated. Walthers are fitted to close tolerances, and nickel is ordinarily applied in a thick layer and must go on over a layer of copper. Nickel is no good on a gun anyway; invariably peels.

If you want it bright and rust proof, have it chromed. Chrome will go on in a layer .0001-inch thick, and is comparatively durable. Try Marker Machine Co., Box 426, Charleston, Ill.

.44 CAP AND BALL REVOLVERS

I have a .44 caliber Remington cap and ball revolver. A .44 Smith & Wesson slug will drop through the barrel, but a .45 Colt bullet seems to fit properly. Is my pistol a .45? For what diameter ball should I buy a bullet mold? How much powder should I use?—FREDERICK J. MILLER, Atlanta, Ga.

Answer by Elmer Keith: All of the so-called percussion Colt and Remington .44's I have used or seen are .45 caliber. Lyman Gunsight Corp., Middlefield, Conn., can furnish

Sad creature, the Sphinx—a mythical thing. No friends, and famous only for keeping a secret. What chance would there be for a close-mouthed Sphinx to sign up new NRA members?

Don't *you* follow the example of the Sphinx, please. Tell your friends about the NRA. Whenever you have a chance, pour facts about your organization into a sympathetic ear. Tell the story of the never-ending battle for sane gun laws. Describe that big RIFLEMAN which comes each month. Mention the personal advice straight from the RIFLEMAN'S (NRA's) outstanding "Panel of Experts," and sum up the nationwide shooting program.

Speak right up about the pride you have in the job your organization is doing for National Defense through the NRA Basic Marksmanship Training Schools. Remember too the NRA's leadership in the field of firearms safety—leadership well earned by the success of its popular junior program and by its pioneering in hunter safety education and uniform hunting accident reporting.

Above all, tell your friend *how* to become an NRA member. Endorse his application and mail it for him. That's hardly the way the Sphinx would do it—but you don't want to be a Sphinx.

Pledge—*I certify that I am a citizen of the United States; that I am not a member of any organization which has as any part of its program the attempt to overthrow the government of the United States by force or violence; that I have never been convicted of a crime of violence, and that if admitted to membership I will fulfill the obligations of good sportsmanship and good citizenship.*

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6-51

a round ball mould of proper diameter. Use a charge of F.F.G. black powder that almost fills the cylinder chamber when poured in, leaving an eighth of an inch. Then seat a wad cut from an old felt hat which has been soaked in tallow and allowed to harden. Seat the round ball on it, turn under the rammer, and ram down flush with chamber mouth. The ball should be slightly oversize to make a perfect seal. You will have to upset a slug in your barrel to get the groove diameter, and an inside mike will give you the diameter of the chamber mouths. The ball should be at least .002-inch larger.

"ORDNANCE" STEEL

What is the chemical composition of the Krag Barrels?—WALTER WHITCOMB, Gladstone, Ore.

Answer by Harold MacFarland: The analysis of "Ordnance" barrel steel as used in the Krag Barrel is essentially the same as S.A.E. #1350. It is carbon, .45 to .55 percent; Manganese, 1.00 to 1.30 percent; maximum Phosphorous, .05 percent; maximum Sulfur, .05 percent; Silicon, .25 percent.

FOUR MAUSER ACTION LENGTHS

I read with interest Al Barr's comments on Mauser actions in the March RIFLEMAN. He is correct in stating that there are four lengths of Mauser actions. There has been much confusion in the last few years concerning the various Mausers brought into the U. S. Several companies have been advertising short Mauser actions, which are the 7 mm. Spanish or Mexican actions specifically designed for the 7mm. cartridge, and are ¼ inch shorter than standard.

Barr stated that he did not know the length of the genuine short action made for the 6.5x54 mm., 8x51 mm., and .250 Savage cartridge by Mauser at Oberndorf. I have an Oberndorf short action Mauser. Overall length from front of receiver ring to rear of tang is 8 inches and it is exactly the same as the genuine, standard commercial action made by the Mauser factory at Oberndorf except that it is ¾ of an inch shorter. It has three locking lugs, double set triggers, hinged floor plate, etc. It is exactly the same length overall as the action of my Remington 722, caliber .222. Comparing the lengths of the three Mausers that I have, I find that the genuine short action is 8 inches, the so-called short or 7 mm. action is 8½ inches, and the standard action is 8¾ inches. The Mauser Magnum action is even larger, but I am not certain of the exact measurement. Measurements were taken with rule, not a mike.—DONALD J. PATTERSON, Norris, Tenn.

EXTREME RANGE

Please tell me the extreme range of the Krag bullet, the .30-'06, and the .220 Swift. We should all realize the extreme danger to human life. I've been told that some bullets will carry five miles and that the highest power Army bullets will go seven miles. —W. J. HALL, Concrete, Wash.

Answer by General Hatcher: The extreme range of the 220-grain Krag bullet is around two and one-half miles. The extreme range of the .30-'06, 150-grain Army bullet was two miles, and the .30 M1 with 172-grain boattail bullet (the longest range Army bullet ever made for the rifle) would carry 5,900 yards or three and four-tenths miles. No Army rifle bullet will go seven miles, but three and four-tenths miles is far enough to be dangerous.

The .220 Swift bullet being much lighter, will probably go only about one and one-half miles. No definite extreme range tests have ever been made with this bullet, because it is too hard to see where the bullet hits out at those extreme ranges, as it is so small.

SIZING .30-'06 CASES IN .270 DIE

Is it possible to resize .30-'06 brass to .270 in a .270 full length resizing die?

If so should the brass be annealed?—R. A. LOWLER, Pendleton, Oregon.

Answer by Al Barr: Sizing .30-'06 cases to .270 caliber is an easy job. Use a very light film of oil on the outside of the cases, for if you use too much oil the case will buckle at the shoulder. The cases will be about .05 inch shorter than the .270. Do not anneal the cases before forming them.

STEEL CLEANING RODS ARE BEST

Quoted from the book "Gun Care and Repair" by Charles E. Chapel, p. 158: "Cleaning rods should be steel. Brass rods are soft, bend easily and scrape against the bore when sprung out of shape. A piece of metal fouling or hard grit embedded in a brass rod has the same effect as emery powder in scrapping away the steel."

Some of my friends scoff at this idea. They swear by the brass or aluminum, saying the harder steel rod is more apt to mar the bore, and that the possibility of metal fouling or grit becoming embedded in the brass rod is so small as to make this argument absurd. What do you say?—R. B. KNUTSEN, Oretech, Oregon.

Answer by Phil Sharpe: Lt. Chapel is correct in stating that brass rods create more wear on barrels than the steel type. Brass does scratch easily, and the minute scratches gather abrasive grit and dirt from cleaning and from use and exposure.

• Hanging in my range house are some ten cleaning rods, all steel. I have a couple of .22 rods made of tool steel drill rod, polished to mirror perfection. There isn't a brass or aluminum rod around the place except a few I have cut up for punches and drifts.

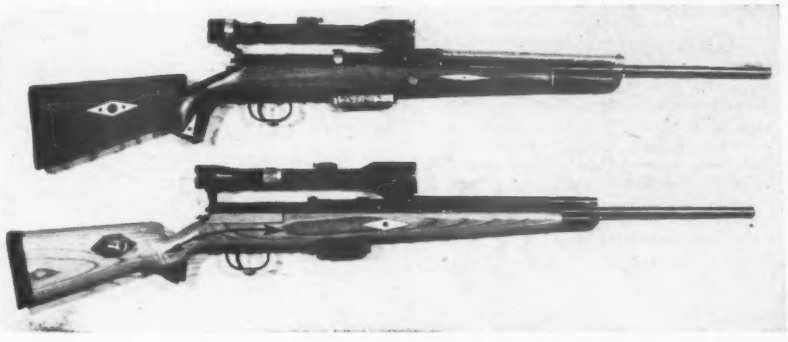
For many years now, I do not recall seeing a topnotch match-shooter ever cleaning his pet .22 bull-buster with a brass rod.

GERMAN SCOPE MOUNTS

What is the best way to mount a German Hensoldt Duralyt 2¾ X scope on a Savage Model 99? The scope has two mounting lugs projecting from the bottom of the tube. Can I have the lugs machined off the tube, and use the Stith Install-it-yourself top mount?—WALTER E. ASKLUND, Renovo, Pa.

Answer by Harold MacFarland: The lugs on those German scopes are rather difficult to get off without damaging the scope. I would suggest you send the scope to Schmidt Precision Products, Route No. 1, Box 150M, Saugus, California, who makes a specialty of working on them.

I know of no better mount for a Model 99 Savage than the Stith Install-It-Yourself.



SEMIAUTO G43 SPORTERS

Although the German K-43 or G-43 military semiautomatic is a rough looking weapon, and is sensitive to variations in bullet weight and chamber pressure, it can be converted successfully into an attractive sporting rifle. The sporterized K-43's in the picture have been rebarreled and chambered for .270 Winchester. The original barrels were not threaded into the actions; however, the new 6 Land, .270 barrels made by G. R. Douglas, were installed by threading the receiver and screwing the barrels into place in the conventional manner.

Since the .270 Winchester cartridge develops a greater pressure than the German 8x57 mm, the gas port in the new barrel on each rifle is only about one-half as large as the original military port. A 1/16-inch bit was used to drill the gas port in the new barrels and provides an opening large enough to enable the .270 cartridge to operate the action very efficiently. The original gas unit above the barrel was not changed, but a cover was added to protect the mechanism and improve the appearance of the weapon.

Further steps in the elimination of that military look were reduction of the magazine capacity to five rounds, and cutting and reshaping the floorplate to conform to the new stock lines.

The walnut stock was furnished by Herter's, but the rifle in the bottom of the picture retains the original military stock reshaped to sporter-lines with the addition of a forearm tip and pistol grip plate.

The two K-43's in the picture were sporterized by the Seguin Gun Shop, Seguin, Texas, who state that the German G and K-43 military semiautomatics can be converted successfully to the following calibers: .30-'06, .257 Roberts, 7mm., and .270 Winchester.—W. F. BISHOP, Seguin, Texas.

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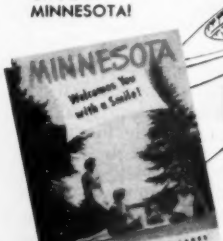

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.257 VARMINT LOADS

I have a Remington made Springfield with a high serial number. It has a new 22-inch medium heavy barrel chambered for the .257 Remington Roberts. What are some good accurate loads for varmint shooting, and what velocities will they give?—David L. King, Peck, Idaho.

Answer by Phil Sharpe: For varmint shooting with the .257 Remington Roberts, the 87-grain bullet and 42 grains of 3031 powder is a good load. I got ⅝ x 1-inch groups, horizontal, at 100 yards, and chronographed the load at 3,182 feet a second. The same charge of 4064 powder did not shoot as well and recorded a velocity of 3,017 feet a second. However, 44 grains of 4064 powder gave groups of 11/16 x 15/16-inch also horizontal, at 100 yards, on a windy day, with the same instrumental velocity as 42 grains of 3031 powder. Bullets were Speer, the gun a standard Remington 722.

MUZZLE BRAKES AND ACCURACY

If one attaches a muzzle brake to a rifle, what happens to the rifle's accuracy? What happens to the velocity of the bullet? If manufacturers' glowing claims are justified, why do so many shooters stand around grinning in a sickly manner to try and convince one another that the heavies aren't kicking?

Would you give me the names of the three best muzzle brakes you know of?—Dr. Gordon E. Shull, Stonega, Virginia.

Answer by Al Barr: Some shooters can take recoil and not be bothered, but recoil has made flinchers out of many shooters. For that type I'd definitely recommend a muzzle brake.

Some claims indicate a reduction of as much as 30 to 40 percent in recoil with certain muzzle brakes, but I doubt that many will give that much reduction in recoil though every little bit helps in case anyone is sensitive to it. I was recently shooting a .45 Magnum which gave lots of recoil and the apparent reduction with a Sha-Cul brake made by Sha-Cul Arms, Inc., 1708 Lamberton Avenue, Boise, Idaho, was about 25 percent. Another which has been recommended, but which I haven't had an opportunity to use yet, is the one by Herter's, Inc., Waseca, Minn. The Johnson is, of course, well known and I have used it; it is furnished by Johnson Automatics, Inc., Providence, Rhode Island.

The biggest objection to a muzzle brake is appearance and increased muzzle blast, but it will have no definite effect on velocity and in every case which I've tried the accuracy, especially with a very light gun, has been improved. With the heavy .45 Magnum it made no difference, in way of accuracy, whether or not the Sha-Cul was attached to the muzzle. A muzzle brake has sort of a dampening effect on a light barrel.

PEST LOAD FOR .270

What are some good accurate loads for a Model 70 Winchester .270 for a good combination crow and coyote gun? I would like some loads that are very accurate and still break up easy.—W. H. Mangold, Bennington, Nebr.

Answer by Elmer Keith: Probably the best of all pest loads for the .270 is 50 grains of 4064 powder with the 100-grain factory or other good bullet giving around 3,400 feet a second. I would prefer the 130-grain bullet for the longer ranges, but the 100-grain bullet is a nasty load on all pests to 300 or even 350 yards. With the 100-grain bullet, 50 grains of 3031 powder will give 3,250 feet a second and 54 grains of 4320 powder will give 3,280 feet a second, with the same bullet.

For the 130-grain load, 48 to a maximum of 49 grains of 4064 powder is the best load. Get a copy of the Ideal Handbook of Lyman Gunsight Corp., Middlefield, Conn. It covers all loads for this and other rifles.

LOADS WITH 4895 POWDER

Dick Hart, president of the Chemical Specialties, Inc., 4435 Piedmont Ave., Oakland 11, California, and director of the National Muzzle Loading Rifle Association recommended loadings of IMR 4895 powder, lot 27272, which may be of interest, as apparently this powder has been used rather extensively in a number of different calibers. The comments following each load should be considered, as some of them seem to be maximum in Mr. Hart's rifles.

Caliber	Powder charge (grains)	Bullet Weight (grains)	Comments by Hart
.25-35	26	117-gr.	Fair load
.250 Savage	32.5 grs.	100-gr.	O.K.
6.5 man.	34.5 grs.	129-gr.	O.K.
.270	47.0 grs.	130-gr.	A bit hot in my gun
.300 Savage	38.8 grs.	150-gr.	O.K.
.300 Savage	35.7 grs.	180-gr.	O.K.
.30-40	36.5 grs.	180-gr.	O.K.
.30-'06	47.5 grs.	180-gr.	Peppy
.30-'06	52.7 grs.	150-gr.	Snappy
8 mm.-03	49.0 grs.	180-gr.	O.K.
.375 H&H	68.0 grs.	270-gr.	O.K.

REBARRELING 9 MM. LUGER

I am thinking of rebarreling a 9 mm. Luger to make a long barrel target pistol. Could I use a U. S. Carbine, Caliber .30 M1 barrel?—R. W. Dyer, San Antonio, Texas.

Answer by Harold MacFarland: I know of no valid reason why you can't use the M1

Carbine barrel on your Luger. However, the maximum length will be about 9 inches, for you will have to cut the barrel in two at the gas port and rebore to 9 mm. caliber. In rebarreling a Luger it is necessary to chamber and head space carefully if the gun is to function. The toughest part of the whole rebarreling job on this gun comes in getting the old barrel out, for they are anchored in there even tighter than Enfield barrels. It is usually necessary to cut a relief ring around the barrel immediately ahead of the receiver to the depth of the threads. This may be done with a hacksaw, or with a thin parting tool on the lathe.

When you fit a longer or heavier barrel to a Luger, you will probably encounter jamming. The additional barrel weight will slow down the movement of the action during recoil and prevent it from working full cycle. Shorten the recoil spring a turn at a time until the gun functions.

FINNISH LAHTI PISTOL

I recently purchased a pistol of the Lahti design, which is not the familiar Husqvarna model. The only markings on this pistol other than the serial number are the letters "VKT" and the number "L-35". The pistol is like that illustrated on page 487 of "Small Arms of the World" (4th edition), which you will note differs in a number of respects from the Husqvarna Lahti shown on page 485. Can you supply any information on this pistol?—P. F. WAHL, Bogota, N. J.

Answer by General Hatcher: The Lahti pistol you have is the Finnish model. Major Jerry Reen tells us that the letters "VKT" stand for Valtion Kivaar Tedhas, meaning State Rifle Factory. The Husqvarna model is the Swedish version and the one you have is the Finnish version of this Lahti pistol.

.220 SWIFT VS. .220 ROCKET

I am considering converting a new .220 Swift to the .220 Weatherby Rocket cartridge.

I do not care about increasing velocity, but would probably shoot a 55-grain bullet at slower velocity than the standard commercial 48-grain .220 Swift bullet. However, if barrel life would be increased, reloading made easier, or accuracy improved I would gladly spend the extra $15 plus postage to have the gun rechambered for the .220 Rocket. — JEROME H. STOUDT, Aberdeen, S. D.

Answer by Al Barr: When you use more powder in the Weatherby Rocket, you can hardly expect longer barrel life than you would get out of a straight .220 Swift. Pressure and the amount of powder you use governs barrel life to a large extent. If, by any chance, you were to use the same loads for the same velocity in the Weatherby Rocket, then you could possibly get increased barrel life because cases would have greater powder capacity, and pressure would be somewhat lower. I think you could get fully as good accuracy with the Weatherby Rocket in near maximum loads.

I had an Improved Acme .220, and noticed some barrel erosion after 1,140 rounds. It may have been that particular barrel, though, because many times up to 2000 rounds can be obtained with good accuracy in the Swift or the blown-out versions.

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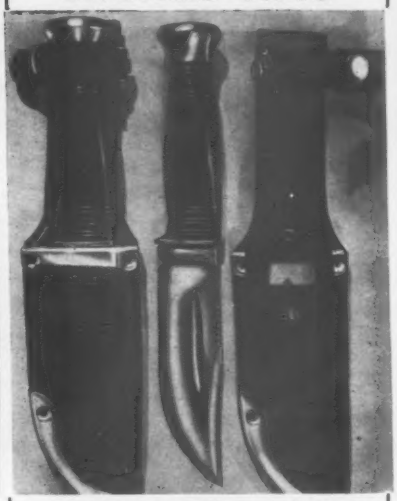

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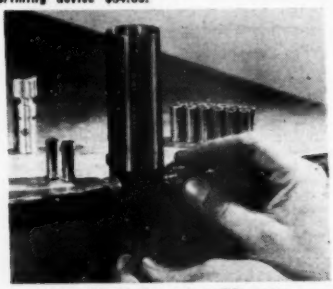

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PRIMERS FOR ELEY SHELLS

Are any primers for the Eley 12-gauge shotgun shell brass case available? I have looked for them in the Stoeger gun book as they usually handle many things made in England.

I have tried Western primers, but they are too large in diameter and require drilling all the way through the primer seat. Would this increase the danger of blowbacks?—Joseph P. Berry, Montgomery, Alabama.

Answer by Elmer Keith: You can get Abercrombie and Fitch or Stoeger to import the Eley shotgun primers if they are still made in England, which I doubt. The best thing to do is to drill out the anvil clear through to give a very tight push fit with Western 209 shotgun primer, and then use a larger drill and counter sink for the rim of that primer. R. C. Ward of Missoula, Montana, has been doing this for years with the .450 Eley rifle cartridge for use with up to 50 grains of smokeless rifle powder and the 405-grain bullet with no blowbacks and every success. The primer pockets can also be drilled out to take a steel insert that is in turn drilled for primers.

BALLARD ACTION

What varmint caliber is safe and suitable for a Pacific Model Ballard action? Is it possible to reline the barrel for one of the varmint calibers? — Arthur Bockmann, North Bergen, N. J.

Answer by Phil Sharpe: The Ballard rifle was a black powder gun, with all parts of the action made of soft metals which lack the strength of today's steels.

To satisfactorily alter the Ballard for modern cartridges, involves a lot of special work on the breech and action. It is a costly job, and requires an extremely skilled man who is experienced in the field. Most gunsmiths are incapable of the work, even though they are experts in the general field.

The barrel can be relined for a varmint caliber, but it probably would be better and cheaper to install a new barrel. If there is sufficient metal, it could be relined to almost any caliber.

CONVERTING HI-WALL TO .30-'06

I have a .32 Winchester Center Fire patented October 7, 1879. The gun has a falling block action and is in very good condition.

Would the action be suitable for rebarreling to a .30-'06.—H. W. Bravo, Jacksonville, Fla.

Answer by Harold MacFarland: Your single shot rifle is apparently a Winchester Hi-Wall. If so, it is a model that is in demand for rebarreling to such varmint calibers as the .22 Zipper or Improved Zipper. It works very well with them, or with a .30-40 Krag cartridge. You can not rebarrel for .30-'06. The extractor will not function with a rimless case.

2400 POWDER DANGEROUS IN .222

I have recently had some experience with 2400 powder and Remington .222 rifles.

The new Belding & Mull hand book lists a load of 18 grains of 2400 powder behind a 45-grain bullet. I tried a load of 17 grains of 2400 powder behind a 45-grain Sierra bullet and got extremely erratic results as far as pressure was concerned. Of

course cases and primers were all I had to go by. Some of the primers did not show any pressure signs, some showed that there was plenty of pressure and two primers were blown out of the cases and one of the cases was wrecked. All the powder charges were weighed to exactly 17 grains, the bullets were "miked" and weighed. Careless loading did not cause this trouble, for Phil Sharpe had warned against the use of 2400 in the .222. His warning should be heeded by all hand loaders and let 2400 powder in full charges be left off as far as the .222 is concerned.

This morning I saw the bolt out of a .222 caliber Remington 722 that had a shell stuck in the bolt head. The shell had blown out just at the edge of the extractor groove, the extractor was ruined, and part of the rim was left in the groove around the extractor when the case was twisted out with a pair of pliers. The man that fired the shell was not injured and the rifle was not hurt, except bolt damage. I do not know what load was used, but the powder was 2400. Perhaps you should warn other reloaders of the danger of using 2400 in this caliber. It might save some rifleman serious eye injury.—J. D. JOWERS, San Angelo, Texas.

Answer by Al Barr: Your experiences with Hercules 2400 powder in the 722 Remington agree very closely with what others have experienced with the combination. We published a warning to that effect sometime ago in the RIFLEMAN.

One other shooter had a similar experience by using around 19 grains DuPont 4227. I personally prefer to use only IMR 4198 for near full loads in this caliber. You will find some reliable velocity figures for 4198 loads on the first page of the Dope Bag for the April 1951 issue.

REAMING .22-250 CASE NECKS

I have made some .22-250 cases from .30-'06 cases, by sizing them three times. What size reamer should be used inside the necks?—A. W. NORMAN, Largo, Fla.

Answer by Phil Sharpe: The reaming of case necks is a rather delicate operation. I would suggest that you use something like the Wilson Case Trimmer with the neck reamer attachment. You will have to remove a lot of brass from those .22-250 cases if you made them from .30-'06 brass. Wilson can supply a reamer of proper diameter.

SPRINGFIELD COCKING PIECE

I have a Springfield Model 1903 and wish to remove the head on the cocking piece. The head has a five-sided shaft in the center of it. Please advise me as to the procedure in removing this head.—JACK STARKWEATHER, Cape Cirardeau, Mo.

Answer by Harold MacFarland: It isn't a good idea to cut off that Springfield cocking piece. The Army tried it and found that with the lessened weight ignition was not quite so certain, and there was a tendency for the primer to drive the pin back, and then burst through the firing pin hole.

That cocking head is threaded on, then riveted. If you insist on removing it, first cross-pin the shank of it to the long rod which goes forward to hold the firing pin. Just drill a small hole, set in a tight-fitting pin, and rivet it. This will keep the parts of the assembly properly located. Then,

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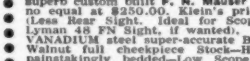

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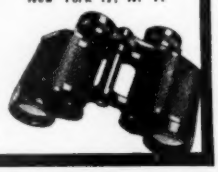

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saw off the part you want to get rid of. You may get it done with a high speed hack saw blade; or you may have to anneal, first being careful to protect the sear engaging lug from the heat. Then, weld the stub that is left to the rod. The little pin first put in may shear and let the gun fire unexpectedly.

You could get that head off if you applied the rear end of it to a grinder to remove the riveted portion, and then unscrew the head. It has a right hand thread.

LENGTH OF JAP 7.7 MM. CASE

What is the proper case length for the 7.7 mm. Jap cartridge?—J. B. Townsend, Sarnia, Ontario, Canada.

Answer by Al Barr: The 7.7 Jap case is listed as being 58 mm. long. Those which we have measured are 2.28 inches long or just a fraction more than the 8x57 mm. German Mauser cartridge.

ADJUSTING TRIGGER ON WIN. 43

What would you recommend I do to lighten the trigger pull of a Model 43 Winchester rifle? — Raymond E. Middleswarth, Laurelton, Pa.

Answer by Harold MacFarland: The trigger pull on a Model 43 Winchester rifle is screw-adjustable. If you remove the stock, you will find a screw which presses a spring against the sear, directly back of the magazine. Back the screw out and the pull should lighten. It may be necessary to use a fine oil stone to polish the engaging surfaces of trigger and sear to get a really smooth pull.

MOUNTING SIGHTS ON JAP RIFLES

Bill Klapp of the Original Sight-Exchange, Paoli, Pennsylvania, sent us this very complete information which should solve almost any problem encountered in mounting new sights on Japanese military rifles.

Installation of ramp front sights

Japanese rifle, caliber 6.5 mm.—A ramp cannot be installed satisfactorily on the 1½-inch long, .550-inch diameter, front section of the barrel. Remove this section and the barrel diameter will be .595-inch. A ramp such as the Lyman, Dahl, O. S. E., or Christy Caterpillar, can be installed.

Japanese carbine, caliber 6.5 mm.—Barrel diameter is .550-inch for 3½ inches from muzzle. Install any ramp with inside band diameter of .550-inch.

Japanese carbine, caliber 7.7 mm.—Barrel diameter is .540-inch for 1½ inches from muzzle. Cut barrel back to 24½ inches and install ramp with .640-inch inside band diameter, such as Redfield, Lyman, Dahl, O. S. E., or Christy Caterpillar.

Installation of front sights

Japanese 6.5 mm. rifle and carbine, and 7.7 mm. carbine—Lyman No. 3 Russian front sight with 1/16-inch red, gold, or ivory bead can be fitted in dovetail slot in front sight band, but front sight ears must be removed from military band, and .199-inch dovetail on Lyman No. 3 sight fitted in .197-inch dovetail in military band.

Lyman No. 3 Mauser frontsight is .360-inch high, can be used if lower front sight is desired. Hand fitting is required, for sight dovetail base is .203-inch wide.

Lyman No. 3 Mann-Haenal is even lower, .312-inch, but more fitting is required. Sight dovetail base is .211-inch wide.

Marble-Sheard No. 27 front sight is lowest, .265-inch, available. Sight dovetail base is .203-inch wide. Low height probably makes it best front sight for use with open sporting rear sight.

Military front sight on Japanese 6.5 mm. rifle is .255-inch high; sight on 7.7 mm. carbine is .285-inch high. Lyman No. 3 Russian, overall height .375-inch, will be correct height for use with receiver sight on these weapons.

Installation of receiver sights

Receiver sights for Mauser Model 98 will fit Japanese rifles satisfactorily, but sliding action cover with which some of these rifles are equipped must be removed.

Installation of open sporting rear sights

Christy, and Brownell barrel bands, or Williams base (attached with two screws) have standard ⅜-inch dovetail slot. Marble open rear sights, such as Nos. 66-H, 67-H, 69-H, and 70-H, can be used with these bases.

Installation of scope mounts

Side mounts—Following makes and models can be used: Weaver Detachable Side Mounts with No. 1 base, Weaver N1, N4, Q1, and U1; Pachymar Lo-Swing Mount for small receiver ring Mauser; Echo Mount with No. 5-DC low base or No. 25-DC high base; Jaeger, and Griffin and Howe mounts for Springfield, and Winchester Models 54 and 70.

Top mounts—Following makes and models can be used: Weaver Detachable Top Mounts with No. 38 bases, Weaver Type U-32 and U-32 Top Mounts, Weaver Type Q-32 and Q-32 Top Mounts; Redfield Jr. 30 Mount can also be installed, but hand fitting is necessary.

When using any scope mount on these rifles the bolt handle must be altered to clear the scope, but the original safety may be retained. The sliding action cover cannot be used with a scope mount.

WINCHESTER MODEL 1901 SHOTGUN

I have a 10 gauge lever action repeating shotgun manufactured by Winchester; patent dates are February 16 and July 20, 1886. I intend to use this gun on duck and goose on the Mississippi River. Is it safe to shoot Super X or any other high velocity loads in this shotgun?—FRANK KULISH, East St. Louis, Ill.

Answer by Elmer Keith: You have a model 1901 Winchester lever action 10 bore. It is safe with any ten bore load with 1¼ ounces of shot, but I do not consider that action to be strong enough for the Super X load or any other high velocity load with 1⅝ ounces of shot, and would never think of using them in it myself. I would advise you to stick to 1¼ ounces of shot in heavy loads for it.

FLOBERT RIFLES

In Pennsylvania, the Penal Code classes the discharge of Flobert Rifles, air guns, spring guns or any other implement which impels a metal pellet to a target as a summary offense.

I have tried without success to get a definition of the term "Flobert Rifle." I would appreciate receiving any description that the AMERICAN RIFLEMAN has.—LUTHER F. POST, Erie, Pa.

Answer by Phil Sharpe: "Flobert Rifles" once meant rifles made by Flobert of France,

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Same about fishing with a string and a hickory pole. Same about sun glasses. Who ever saw a barefoot boy wearing sun glasses? His friends would laugh themselves sick. Barefoot boys don't find out they need good tackle and good sun glasses until they get older and get shoes. Then they buy the best tackle. That's when they ought to buy the best sun glasses. Their eyes are older. Strain they didn't notice as a kid begins to show up. A day on the water, especially after a night of not being teetotally on water, gives a guy headaches.

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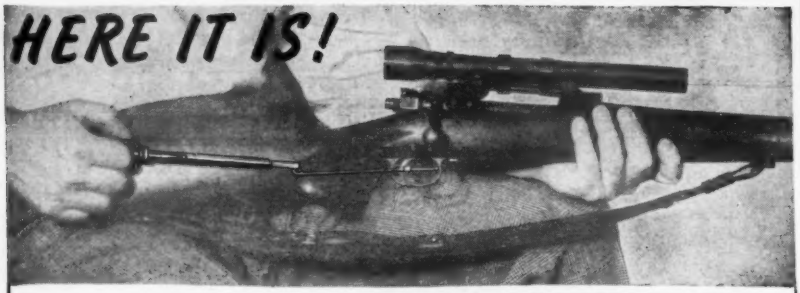

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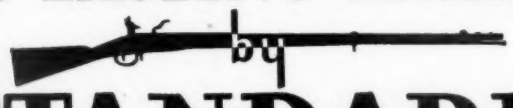

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but that dates back to 1850. Flobert developed a small rimfire cartridge known as the Flobert Cap. When introduced into this country it became known as the .22 BB cap.

Soon many foreign firms were producing guns of this type, very light salon or "parlor guns". They all had one distinguishing feature—these little singleshots were all smoothbore. So, for many years, all rifles falling into this group of rimfire smoothbores intended for these light caps have been called "Flobert Rifles."

SPRINGFIELD SAFETY LUG FIT

Are all three locking lugs on a 1903 Remington Springfield supposed to bear evenly when fired?

If so, should I do what they call "hard fitting?"—Wayne A. Tipsword, Peoria, Illinois.

Answer by Harold MacFarland: Both forward lugs on a Springfield must contact evenly, and you would be justified in hand fitting them to achieve an even bearing, providing head space was gauged and corrected afterwards. The third, or safety lug, must NOT contact. This one is on standby duty, just in case. If it doesn't clear, you must grind it until it does. Otherwise, you may break up a receiver. On many Springfields, it clears as much as a sixteenth of an inch, and this is OK.

ELK LOADS FOR .300 SAVAGE

I have a .300 caliber Savage Model 99. Can you suggest some good hunting hand loads for both the 150 and 180-grain bullets?

Can I hand load safely for this model, and can I get better ballistics than the commercial load?

I also load for the .257 Roberts. Which of the two calibers would you recommend for elk hunting.—D. R. Howe, Janesville, Wisconsin.

Answer by Al Barr: The .300 Savage, especially with a 180-grain bullet in a good load, should be better than the .257 Roberts on elk. About the very best load for the .257 Roberts would be the .25-grain Barnes bullet with 44 grains of 4350 powder which gives 2,850 feet a second at a maximum pressure level of about 49,000 pounds.

In the .300 Savage one of the highest velocity loads with 180-grain bullet would be 36 grains of HiVel No. 2 powder giving 2,430 feet a second at 49,000 pounds pressure which is maximum. With a 150-grain bullet maximum load is 39 grains giving 2,710 feet a second at the same pressure level. These loads just about duplicate factory ballistics. The only powder duPont recommends is 3031. Maximum load with the 150-grain bullet is 41 grains of 3031 powder at 2,565 feet a second, and, with the 180-grain bullet, 40 grains at a velocity of 2,450 feet a second.

POTENT LOAD FOR .45 COLT

What is the strongest safe load for the .45 Colt S.A. Revolver? I prefer Hercules 2400 with 237-grain bullets. These S.A. Colts are the late ones above 300,000, serial number.—P. O. Musser, Reseda, Calif.

Answer by Elmer Keith: For those late issue .45 Colt S.A. Revolvers, try the Keith 250-grain solid or 235-grain hollow point bullets, Ideal Mould No. 454424, backed

by 18 to 20 grains of Hercules 2400 powder, a good stiff crimp and bullets cast one to sixteen or one to twenty, sized to not over .001-inch larger than the groove diameter of the barrel. This is a very potent, accurate load and a killer.

RELOADING ARMY BRASS

How often can .30-'06 cases safely be reloaded with maximum or slightly less than maximum loads?

I have hundreds of late issue Army rounds. I plan to pull the bullets, and, leaving powder as is, reseat 180-grain soft point bullets. Can this be done with safety and good hunting accuracy, or will the resultant pressures be too high?—Russel V. Smith, Rochester, Minn.

Answer by Phil Sharpe: The life of brass cases is highly variable. I have found that none of the post war .30-'06 brass will last as long as prewar brass. With full loads you should get between ten and thirty loads from the cases.

The military bullet weighs 150 to 152 grains, and the heavier bullet would raise pressures far beyond the danger point. You may substitute 150-grain sporting bullets with safety, but remember that the primers are corrosive and you must clean your gun carefully.

BLUING DURAL RECEIVER

I want to blue a new Savage automatic shotgun receiver but I can't tell what metal it is made of, and I'm afraid to put it in the bluing solution. Do you know whether bluing will hurt it or not? What does Savage use for bluing these receivers?—Lewis Fox, Wenonah, New Jersey.

Answered by Harold MacFarland: Some Savage receivers are made of dural. You could put them in a blue tank, but they wouldn't be there when it came time to take them out. Try a magnet on yours. If it attracts the receiver, OK. Go ahead and blue it. If it doesn't, send that job to Savage for bluing. Duraluminum parts are finished by electrolytic plating and only the factory can do it: unless you want to blue it the way you would blue a house.

SCOPE FOR WINCHESTER CARBINE

Are any scope mounts available for a Winchester Model 94 .32 Special carbine? Is it practical to mount a scope on a top ejection rifle of this type?—Chester Lukaszeski, San Francisco, Calif.

Answer by Elmer Keith: M. L. & M. J. Stith, Transit Tower, San Antonio, Texas, do a very creditable job of mounting almost any scope on the top ejection, lever action Winchesters. The scope is offset slightly to the left, and a piece of steel is fitted to deflect the ejected cases slightly to the right.

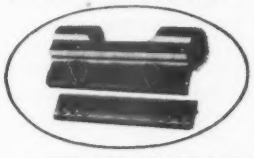
.22 RIM THICKNESS GAUGES

Our club is contemplating buying a couple of Merit .22 caliber rim thickness gauges. We anticipate a shortage of .22 match ammunition and figured that if we had a couple of these gauges we could gauge our standard ammunition and obtain approximately the same results as we would get with the match loads. Are these gauges worth the time and expense?—Lad Bertva, Sturgis, Michigan.

Answer by Al Barr: I've used different

Model K4 shown with Weaver Detachable Top Mount. Scope $45.00; Mount $9.75

Weaver Detachable Mounts permit quick easy removal of scope from gun, and positive zero on replacement. Top Mount, shown above; or Side Mount, shown below, $9.75; extra bases, $1.50.



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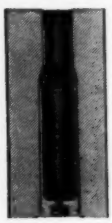

Resizes cartridge cases down to their original dimensions throughout their length. Used when fired cartridge cases will not enter chambers without sticking. Hand die furnished in all popular calibers . . . $3.00.

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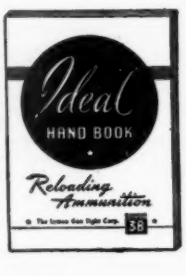
Save money with this new, up-to-the-minute, 184 page edition. New loads, new bullets, new ideas, for safe, economical reloading. 75¢ at your dealer's.



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types of rim thickness gauges, including the Merit. The principle advantage I see in using one of these gauges is that you may occasionally eliminate a flier caused by an abnormally thick or thin rim, which would probably occur more often with regular cartridges, than with match ammunition. Arthur Cook has miked even match ammunition, and I believe his opinion is about the same as mine—you may pick up a few points by gauging the loads.

GUNSMITH TRADE DOPE

New Lyman catalog, No. 36 is larger, better organized than old catalog, No. 35. It contains useful information on metallic and telescopic sights, Ideal reloading tools, and the Cutts Compensator. The new catalog is obtainable by sending ten cents in coin to The Lyman Gun Sight Corporation, Middlefield, Connecticut.

Kenneth E. Clark, Madera, California, has produced evidence that, in one case at least, his eye shield for the Enfield bolt sleeve may have saved a shooter from serious injury. During a rifle match one shooter accidentally slipped a .22-250 cartridge into a magnum rifle. Oddly enough, the primer was set off. Clark reported, "The escaping gas practically blew the shooter's hat off, but he was not injured. I think my eye shield deserves a tiny bit of credit here, as it stayed intact."

We have been recommending the Clark Eye Shield for use on the Enfield bolt sleeve to help prevent escaping gases from reaching the shooter's face if the primer should rupture or the case break.

Potter Engineering Company, manufacturer of the Potter loading tool, electric furnaces, and other shooting equipment, has moved to 1387 Riverhills Circle, Jacksonville 7, Florida.

J. W. Hornady, 216 W. Fourth St., Grand Island, Nebraska, has recently sent us samples of his .22 caliber, 50 and 55-grain Hornady spire-point bullets. The ones we have used are of accurate and uniform construction. We have obtained better than minute of angle accuracy in several rifles with the 50-grain bullet and 35 to 35.5 grains of 4320 powder.

Mt. Sopris Tool and Gun Works, Glenwood Springs, Colorado, specializes in durable, but not too fancy, bluing jobs on sporting rifles. The finish is rather rough, but we are informed that this system produces a more durable bluing for rough use than the ordinary highly polished job.

Price for grinding the rough Springfield barrel is $3.50, other barrels are finish ground for $2.50. The final bluing job costs $7.50 to $10.00 additional.

Lee's Sportsmans Exchange, 7831 S. Broadway, Los Angeles 3, California, features gun engraving jobs for wholesale and retail accounts. List prices start at $17.50 for a complete floorplate job. The one we have seen looks very good, considering the price, but final bluing of the rifle or pistol is not included.

Lovell's, Box 1313, Chicago 90 Illinois, features spare parts for foreign military rifles and pistols. Their new price list catalogues many different items, including parts for Jap rifles, the Italian Carcano,

the Roumanian Model 38, and the Japanese Nambu Model-25 8 mm. automatic pistol. Parts have been segregated according to quality with prices based on condition of part.

Jim Wilkinson, Rifle Ranch, Prescott, Arizona, who features a large stock of reloading components and tools, has just issued a new 12-page price list which includes all popular makes of bullets in a variety of weights. Most of the bullets are in stock for immediate shipping; list is quite complete.

NEW PRODUCTS

The Leupold Sportsman Compass, a product of Leupold and Stevens Instruments, Inc., Portland 13, Oregon, is a rugged, well designed compass with an adjustment to correct for the difference in degrees between the magnetic declination and the true meridian. The compass has an automatic needle lifter, which raises the needle from the pivot when the compass cover is closed.

The compass is compact enough to be carried conveniently in the pocket, but also has lugs for attaching a neck cord to help eliminate the possibility of losing the compass. A rather complete and informative compass guide manual is included with the compass.

The Sportsman Compass is undoubtedly one of the best made at the reasonable price of $7.95.

Auxiliary folding leaf sight and barrel band for the Springfield is a new product of Bayshore Gun Works, 33 E. Bayshore Highway, Mt. View, California. The sight is designed for use as an auxiliary sight with top-mounted scopes such as the Redfield Junior and the Weaver detachable top mount.

The folding leaf rear sight, which is adjustable for elevation, is high enough to clear the base of the Redfield Junior and similar type bases once the scope is removed. Made of solid steel, the sight is very neat in appearance, well polished and blued, and is held in place by a small Allen screw. The band, made in one size only, will fit the Springfield only after the rear sight sleeve is removed from the barrel, or other barrels turned to the proper dimensions.

The price is $10.50 with discount to dealers.

Handy Stowaway Rifle Cleaning Kit is featured by Allen-Nuttall, Box 385, Pawtucket, R. I. Packaged in a metal box 2½ inches in diameter and weighing only 3 ounces, is a flexible cable with an adapter at one end to accept a screw-in eyelet to hold the rifle cleaning patch. Brass brushes are not included in the kit which sells for $1.95, but provision has been made to use them with the flexible cable.

The kit can be carried in a coat or shirt pocket, and one size flexible cable is intended for cleaning all calibers from .22 to .45.

New bullet lubricator and sizer for cast bullets for use in either the standard or Super-Pacific reloading tools, has just been announced by the Pacific Gun Sight Company, 2901 El Camino Real, Palo Alto, California.

Although we haven't as yet had an opportunity to use one of these lubricators and

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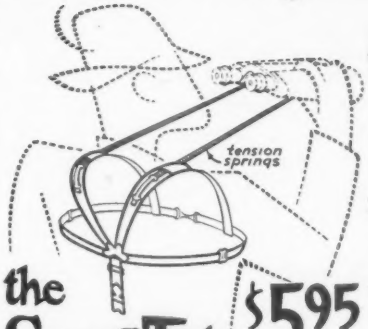

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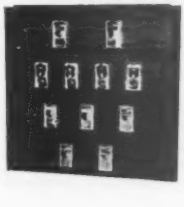

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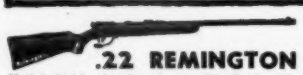
Condition Very Good
Use .303 British ammunition made in U.S.A. by Remington Arms Corp.



.22 REMINGTON $16.10

Model 514A chambered for .22 short, .22 long and .22 long rifle cartridges interchangeable standard or higher speed velocity. Adjustable rear sight, flat, integral bead front sight. Special safety features. Full size, One piece pistol grip stock genuine walnut. 42" length, weighs 5¼ lbs. Brand new.

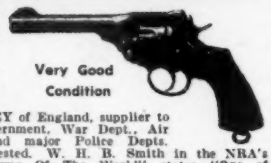
.22 SAVAGE-STEVENS $14.12

22" Round, Tapered, Takedown Barrel—Receiver one piece. For .22 L or .22 S High speed or Regular cartridges. Bolt Action. Gold bead front, sporting Rear Sight with Elevation adjustment. Length 32". Weighs 4 lbs.

WORLD FAMOUS STAR .22 PISTOLS

Perfectly balanced, streamlined. The SPORT model with 6-inch barrel does double duty as target pistol as well as general outdoor use. Overall length 9 inches, weighs 27 oz. $46.50. The TARGET model has 7⅛ inch barrel, length overall 10 inches, and weighs 29 oz. $49.75. Both have blued finish and sights are adjustable for windage and elevation. Magazines capacities 10 cartridges. Takes .22 Long rifle, regular or high velocity. Both have the full hand grip and thumb rest stocks. TRULY SUPERB CRAFTSMANSHIP.

.455 WEBLEY $29.50



Very Good Condition

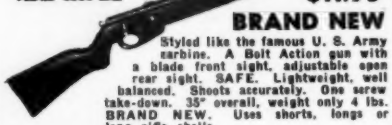
Made by WEBLEY of England, supplier to the British Government, War Dept., Air Force, Navy and major Police Depts. Recently proof tested. W. H. B. Smith in the NRA's book "Small Arms Of The World" states **"One of the finest heavy duty hand weapons ever made, permits opening and extracting cartridges with one movement of the hand."** These revolvers TRIPLE lock cylinder during firing. Truly a fine value at $29.50 FOB Chicago. **Same model "Excellent Condition" $34.50.** No COD's please. Ammunition plentiful. Use any .450 or .455 Revolver ammunition suitable for Colt or S & W Revolver (not automatic). Or we can supply Smokeless, Non-Corrosive 265 Grain Box of 50 for $5.35.

9MM German Auto LUGER $39.50

Very Good Condition

The world famous Official German Army LUGER. **Weighs 31 ounces!** Their condition is "Very good." These LUGERS have a Muzzle Velocity of 1150 ft. per second! Striking energy is 365 foot pounds! They have fixed sights, and special safety features. Overall length 8¾". 8-cartridge magazine. Proof tested. American and German made ammunition is available anywhere. **Same model "Excellent Condition"—$49.50.**

CARBINE STYLE .22 RIFLE $11.95 BRAND NEW



Styled like the famous U. S. Army carbine. A Bolt Action gun with a blade front sight, adjustable open rear sight. SAFE. Lightweight, well balanced. Shoots accurately. One screw take-down. 35" overall, weight only 4 lbs. BRAND NEW. Uses shorts, longs or long rifle shells.

WALTHER 9MM P-38 AUTO. $37.50

Official World War II German Military Automatic. Barrel length 4¾"; overall 8½", weight 34 oz. 8 cartridge magazine. Proof tested. Condition "Very good." Same Model excellent condition—$47.50.

Unconditionally Guaranteed

Every gun is sold with the understanding that if you are not completely satisfied in every way return your gun within 5 days for a full unquestioned refund of your money. **RIFLE** cash orders shipped prepaid. C.O.D.'s include $5.00 deposit. **HANDGUNS** are all shipped FOB Chicago and C.O.D. orders cannot be accepted. **In ordering firearms you must state in your order you are not a minor, alien, fugitive from justice or been convicted of a crime of violence. NONE SOLD TO MINORS!** Federal Firearms Dealer #8780. Registered Firearms Importer (U. S. State Dept.) #2988.

We Sell By Mail Only!

UNITED ARMS COMPANY • 9043 S. WESTERN AVE. DEPT. FA-1540, CHICAGO 20

Williams FOOLPROOF

World's Finest Receiver Sight

Strongest • Best Material
Most Positive • Nicest Looking
Most Practical • Lightest
NOW - 18 Models available!

. . . and just $9.00!

WILLIAMS GUN SHOP, INC.
7389 Lapeer Rd. Davison, Mich.

sizers, the claims made are quite interesting. According to its makers the sizer may be quickly and easily adjusted to lubricate one or more grease grooves by means of a special gauge furnished with the sizer. They also claim that the base and nose of the bullet will be left clean. The sizer is semi-automatic, having both a top and bottom punch to seat gas checks solidly. The announced price is $16.95 with extra dies available in all popular cast bullet sizes and styles at $4.95 each.

Two-piece Buehler scope mounts are now available in two new models from Maynard P. Buehler, Orinda, California. These two-piece bases are made in one model for the Model-70 Winchester and in the other model for the Remington 721 and 722 rifles. They are available with both the solid and split ring clamps. These mounts, which include a recoil lug located at the rear of the front base, will fit standard screw holes in the post-war Model-70 and the Remington rifles.

The new, two-piece scope mounts enable the user to mount the scope further back on the receiver than was possible with the old Buehler one-piece mounts. The mount bases may be purchased without the scope rings, for all Buehler rings are interchangeable on all Buehler bases.

BOOK REVIEWS

OFFICIAL GUN BOOK

EDITED BY CHARLES R. JACOBS

The 1951-52 edition of this book covers handguns, military automatic weapons of various countries, sporting and target rifles and equipment, military conversions and gun care, and shotguns and equipment.

The information and numerous illustrations will aid the prospective buyer in selecting guns and equipment for almost any phase of the game in which he is interested. Ballistics charts, range tables, a scope specification chart, scope mount data, and a cartridge identification chart, will make the book invaluable as a reference.

Numerous experts in the various phases of shooting and handloading have contributed to this latest edition. Harry Reeves leads off with an article on "Practical Handgunning and Guns", in which he discusses the capabilities of the handgun, the requirements and equipment needed, the fundamentals of handgun shooting, and the handgun as a defensive weapon. This is followed by "Development of the Revolver" by Charles T. Haven and "20th Century Military Automatics" by William Piznak.

The Gun Room of Fame is a new feature with this edition. Each year an outstanding gun will be selected. Full details on the methods of selection are included in the book. A gun dictionary containing over 700 definitions will help the beginner to understand the language of the shooting fraternity.

Except for the fact that a few of the illustration captions are transposed the 1951 edition is well laid out and should be of interest to the gun enthusiast.—H. C. STITH. (Published by Crown Publishers, New York. 178 pages. Price, paper-bound $1.50; deluxe edition $2.50.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rates: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: June 1st for the July issue. Ads received after June 1st and not later than July 1st will be inserted in the Aug. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first-class mail which does not carry a *complete* local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for any unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10. **The National Firearms Act** forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws, after the manufacturer has advised the NRA that such violation exists.

FOR SALE

QUICK WAY BULLET PULLER, $6.00 SET. Pulls all large rifle bullets .22 to .35 caliber. For Pacific, Universal and Hollywood tools. Guaranteed. Agent for A.B.C. bullets. M. L. Whitesell, 1131 North Lincoln, Casper, Wyoming.

.303 CALIBER BRITISH ENFIELD SERVICE Model Rifles, 6-shot, 26" barrel. $22.50 each. Also finest deluxe Sporting models $27.50 each. Limited supply, send remittance for immediate shipment. Sportsmen's Wholesale Supply, 2098 St. Catherine St., W., Montreal 25, Quebec, Canada.

GOV'T. SURPLUS GOGGLES WITH RUBBER frames for industrial use, all sports, skiing, automobilists and motorcyclists. Complete with polarizing lens. Value $4.50. Special $1.29. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

SERVICEABLE SA COLT PARTS: HAMMER $4.25; trigger $1.50; gate $2.25; trigger guard $4.50; ejector head $2.00; mainspring $2.00; screws 35¢ each; hand with spring $2.00; .45x5½" barrels, pitted $3.25. 20-shot magazine for .30-'06 Springfield $8.00. Parts for C&B revolvers. B. K. Wingate, Box 154, Carlisle, Pennsylvania.

SHELL SHOP. A.B.C. BULLETS. AGENTS wanted. Remington Shot Wads. Frontier Parts, Live Blank & Foreign Ammo. Bullets and Primers. 3705 Sunset Blvd., Los Angeles, California.

A PENNY POSTCARD CAN SAVE YOU dollars worth of ammunition! Send today for the free handbook of wing-shooting facts. "Straight from the Shoulder". The Poly-Choke Co., 606 Tunxis St., Hartford, Connecticut.

8 M/M NAMBU PISTOL AMMUNITION (50) $6.50. .35 Winchester 1895, factory soft points (20) $5.00. 8 m/m Mauser $3.85. 6.5 Jap soft points (custom) $4.25. 6.5 Italian $4.75. .256 Newton or 7.7 Jap soft points $3.50. .38-56, .40-60, .45-60, .40-65 Winchester, black powder, lead $3.75. .38-56 soft points, $4.25. Send dime for complete list of guns and ammunition. Central Sports, Delphos 2, Ohio.

PERCUSSION COLT AND REMINGTON parts. Flint and percussion locks. List 25¢. C. H. Weisz, 100 South Uhle Street, Arlington, Virginia.

POLARIZED GREEN FILTER SUN SHADES for 7x50 and 6x30 Binoculars, value $5.50. While they last, $1.50 per pair. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pennsylvania.

FREE COPY OF AMERICA'S LARGEST GUN list. Published monthly. Write—Shotgun News, Columbus, Nebraska.

LARGEST AND FINEST STOCK OF COLlectors' arms in America. Visit our shop or write us your wants. The House of Guns, Morris Plains, New Jersey.

ATTENTION SHOOTERS! WILLIAMS ARE manufacturers of the finest in precision shooting equipment: Foolproof Receiver Sights, Quick Convertible top and Offset Scope Mounts, Streamlined Hood and Hoodless Ramp Front Sights, Guide Sling Straps (plain and hand-carved), Standard Sling Swivels, Slot Blanks, Open Sight Bases, White Center Dial Scoring Targets, Screw and Sight Assortments, Standard Gunsmithing Screws, Williams Gun Oil, Stock Finish, Bore Cleaner and Walnut Stain and Filler. Write for literature. Complete catalog 25¢. Address inquiries to: Williams Gun Shop, 7387 Lapeer Road, Davison, Michigan.

ANTIQUE FIREARMS, ACCESSORIES AND parts. All illustrated lists for a year, $1.00. Weisz, 100 South Uhle Street, Arlington, Virginia.

NAVY OXFORDS, GENUINE U. S. SURplus, finest black calfskin, famous makes, specify size, $7.95. Check or money order. (Add 50¢ for postage and handling.) AR Rudolph's, Atchison, Kansas.

BINOCULAR 10X80 TANK OBSERVATION Glass. Excellent optical and mechanical condition. Value $600.00. Bargain $125.00. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

ELECTRIC PENCIL: ENGRAVES ALL METals, $1.50 postpaid. Beyer Mfg., 10511-Z Springfield, Chicago 43.

BIG CATALOG ANTIQUE GUNS, $1.00. 475 photographs. Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

LARGE COLLECTION OF AMERICAN AND European antique arms. Send 25¢ in coin for our 18th catalog. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass.

3-GUN RACK, SOLID WALNUT, BEAUTIfully finished, $7.95 prepaid. 25¢ coin (deduct first order) for Catalogue, 3 lines Gun Racks, six sizes. 5 models Gun Cabinets, popular woods. Knox Wood Products, Knoxville, Iowa.

HOLLAND LIGHT-WEIGHT MAGAZINES $10.50. R. Vail, Warwick, New York.

SMITH AND WESSON, MILITARY AND Police Model, brand new revolvers, caliber .38 Special, 4 and 5-inch barrels, $56.50. Colt Target Model, .22 caliber Woodsman Automatic Pistols, 6" barrels, brand new $70.00. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pennsylvania.

ARMS LITERATURE—OLD CATALOGS—Books—Pamphlets. Send for Bargain List and Information card. Hugh Smiley, Henniker 10, New Hampshire.

SEND FOR "HOW TO PROTECT YOUR INvention" and "Invention Record" free. McMorrow, Berman and Davidson, Reg. Patent Attorneys, 251-L Victor Building, Washington 1, D. C.

HORNET CUSTOM LOADS, SIERRA 45 GR., box $5.00. Others. "Single-Shot" Ratliff, Dayton, Oregon.

SHEEPLINED RIFLE AND SHOTGUN cases $7.50, scoped cases $9.75, quote length. Army Air Corp flying coveralls type K-1 tan cotton twill, medium size only, $7.50. Government surplus 12½" all leather oil treated laced boot, ½" leather soles, worn with felt insoles, pair $12.50. Check or Money Order, please. Remington and Western brands rifle and shotgun ammunition, all popular brands Rifles, Shotguns, Handguns, Pflueger Reels. Inquiries invited. Rudolph's, Atchison, Kansas.

From a $5 ad he built a business!

"Every time I get ready to expand my RIFLEMAN advertising a bunch of new orders come in. This whole business has been developed entirely as a result of my first ad in 'The Arms Chest'—which cost me exactly $5.00!"

260,000 gun enthusiasts provide an *exceptionally* profitable market for anyone who has a product or service of interest to shooters and hunters.

Many successful businesses have been built up from small ads in these classified columns. Just a single 'test' insertion will quickly prove just what we can do for *you.*

Final closing date for the August issue is July 1st; full instructions above.

Fuller Tool Co. is one of the leading manufacturers of Chambering Reamers used by prominent gunsmiths and rifle enthusiasts who appreciate the better shooting an accurate ammunition chamber provides. These reamers are fully guaranteed for consistent quality and long, satisfactory service—there are none finer.

Fuller Chambering Reamers are made from High-Speed Steel, with solid or removable pilots, integral threster, 7/16 shank with a ⅜" square and ¼-28 tapped hole for extension. Roughers are 4 fluted. Finishers and case sizers have 6 flutes—all staggered. Finishers and case sizers are hand honed and all reamers are liquid honed.

CALIBERS CARRIED IN STOCK

RIMMED

22	L.R. Target
22	Hornet
22K	Hornet
2R	Lovell
218	Bee
218	Mash. Bee
219	Donaldson
219	Zipper (Std)
219	Zipper Imp.
25/20	W.C.F.
25/35	Winchester
17 Cal.	Fuller
30/30	W.C.F.
30/40	Krag
32	Winch. Sp.
32/40	Winchester
33	Winchester

BELTED

300 H&H	Magnum
375 H&H	Magnum
300 Imp.	Magnum
375 Imp.	Magnum

RIMLESS

222	Remington
6.5MM	Jap .257
7MM	Mauser
7MM	Imp. Mag.
8MM	Mauser
8MM-06	
22/250	
220	Swift
257	Roberts
250	Donaldson
257	Roberts Imp.
250/3000	Savage
270	Winchester
270	Magnum
30	Remington
30/06	Springfield
30/06	Imp.
300	Savage
35	Whelen

SHOTGUN

410 x 3"	Shotgun
12 Ga.	Shotgun
16 Ga.	Shotgun
20 Ga.	Shotgun

Available in 2¾" and 3".

Most sizes available from stock — Roughers, Finishers, Case Sizers

SOLID PILOT TYPE

Finishers and Case Sizers	$12.50
Roughers	10.00
22 Long Rifle Finishers	7.50
Specials (your blueprint)	25.00
Throaters	7.50
Extensions (all reamers)	2.00

REMOVABLE PILOT TYPE

22 Long Rifle Finishers	$12.50
All Reamers-Finishers	17.50
All Reamers-Roughers	15.00
Removable Pilot Center Drills With Bushing (state caliber)	5.00
*Set of Removable Pilot Center Drills	25.00

*Three center drills, 12 interchangeable bushings (i.e. 12 calibers) and maple case.

FULLER TOOL CO. 3950 WEST ELEVEN MILE ROAD BERKLEY • MICHIGAN

SEMI-FINISHED SPORTER TYPE WALNUT

STOCKS

STANDARD OR MONTE CARLO

SPECIAL $5.50 PRICE

Prepaid in U.S. Only

- Balanced Design
- Accurately Semi-Inletted
- Schnabel Tipped Fore-end

Standard Model Shown

For Springfield '03, Enfield '17 Mauser M98 F.N., Kar, and 33-40

Buy the stock that has been enthusiastically praised by gunsmiths all over the country for its select walnut and quality craftsmanship. See our stocks on the famous Sheridan line of fine pneumatic rifles. A minimum of work is necessary to bed action. Completely shaped (inslucding cheek pieces) and ready for sanding. Small barrel groove to permit use of lightweight barrel. Send $5.50 check or money order. Money back if not satisfied upon inspection. Quantity discounts offered.

Central Pattern Works, Inc. 1338 Clark St., Racine, Wis.

AMMUNITION

4 MM Rimfire short, for Parlor rifles	200 for $5.50
6.5 X53 Rimmed, Dutch, 160 gr S.P.	20 for $4.60
6.5 X54 Mann. Schoenauer, 154 gr S.P.	20 for $4.40
6.5 MM Jap (Cal. 25) 150 gr S.P.	20 for $4.95
6.5 MM Italian, rifle & carbine, 150 gr. S.P.	20 for $4.95
280 Ross, 160 gr hol pt, cop tip	20 for $6.50
7x64 Brenneke Mauser, 139 gr S.P.	20 for $6.90
7 MM Mauser, 140 gr Expanding cop tip	20 for $4.85
7.35 MM Italian, 170 gr S.P.	20 for $5.75
7.7 MM (cal 31) Jap, 180 gr S.P.	20 for $4.50
8 MM Mauser, 154 gr metal jacket	50 for $7.50
8 MM Jap auto, Nambu, 95 gr. M.J.	50 for $8.50
8x57 R (JR) rimmed, 196 gr S.P.	20 for $4.95
8x60 Mauser, 196 gr S.P.	20 for $4.95
35 Cal. Winch (35 WCF) 250 gr S.P.	20 for $4.95
9 MM Luger and P 38 auto, 115 gr. M.J.	50 for $4.50
9 MM Mauser (9x57) 245 gr. S.P.	20 for $5.90
9.3x62 MM Mauser, 285 gr S.P.	20 for $5.50
9.3x72 R, rimmed, 201 gr S.P.	20 for $6.80
9.3x74 R, rimmed, 285 gr S.P.	20 for $6.80
38-56 Winch, black powder, 255 gr lead	20 for $5.25
40-65 Winch, black powder, 260 gr lead	20 for $5.25
11 MM Mauser, Model 71, 285 gr lead	20 for $6.50
45-70 Government, 405 gr lead, black pow,	50 for $5.90
50-70 Government, 450 gr lead, black pow,	20 for $4.25
30 Cal, 150 gr, bullets only, postpaid	200 for $5.50

S.P. means softpoint hunting bullet. Sorry, no C.O.D.

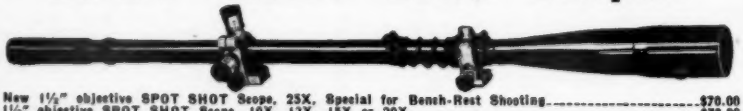
We carry the largest variety of ammunition in America. Send 3c stamp for complete list, including 12-page catalog of Hunting and Firearm Accessories.

Life Member

PHILIP JAY MEDICUS

Dept. A-6 18 Fletcher Street, New York 38, N. Y.

SPOT SHOT Rifle Scopes



New 1½" objective SPOT SHOT Scope, 25X, Special for Bench-Rest Shooting $70.00

1½" objective SPOT SHOT Scope, 10X, 12X, 15X or 20X $70.00

1¼" objective SPOT SHOT Scope, 10X, 12X, 15X or 20X $55.00

Complete with mounts, dust caps, recoil spring (less bases)

⅞" objective SPOT SHOT Scope, 8X and 10X $45.00

Complete with mounts and recoil springs (less bases)

All scopes guaranteed against damage from recoil and can be used with any caliber rifle.

These new scopes are precision made, have COATED OPTICS, NEW ¼ min. click mounts, and sliding-sleeve objective focusing adjustment. These scopes are made to fill a long felt need for a medium priced target scope that will really fill the bill. The "SPOT-SHOT" scope, with our NEW mounts, will give fine results in either target shooting or vermin shooting. Our new mounts have several mechanical improvements and finer finish. Write for our new literature.

R. A. LITSCHERT Dept. A WINCHESTER, IND.

"BIG HEAD" SAFETY FOR WINCHESTER MODEL 12

Fits all gauges, right or left hand available. Fast, certain. No fumbling—even with gloves. Simple and easy to install. **$2.95**

A-B ENGINEERING Box 466 Kalispell, Montana

GENUINE ELKHORN GUNRACKS

A rack for those with exacting taste . . . hand-rubbed Walnut back with polished elkhorn prongs, bronze pistol support. Add ranks as your gun collection increases. Price $10.00 Postpaid.

DEN CRAFT — Box 691 Casper, Wyoming

SPECIAL PURCHASE!

U. S. ARMY AIR CORPS $59 WALTHAM AND ELGIN WATCHES

ONE YEAR GUARANTEE **17.95** TAX INCLUDED

Perfect gift for the service man. 16-Jewel precision wrist watches. Shockproof! Waterproof! Sweep Second Hand! Luminous Hands and Dial! Brilliant stainless steel. Reconditioned. Send check or Money Order.

PUBLIC SPORTS SHOPS

11 SOUTH 16th STREET, PHILADELPHIA 2, PA.

FOR SALE: WALNUT, CHERRY AND curly maple gunstock blanks sawed to patterns. L. G. Stockberger, Garrettsville, Ohio. ■

FABRIQUE NATIONALE DELUXE RIFLES. The finest in hand-fitted and hand-finished rifles. For the discriminating shooter who wants the best. "Randall" 100% hand-made knives. The world's finest. "Hensoldt" scopes and Roof Prism binoculars. Life Member. Sam Friedman, 782 Pelham Parkway, New York City.

COLLECTORS' PISTOLS. STAMP FOR LIST "P". J. S. White, 381 Lincolnwood, Highland Park, Illinois. American antique pistols wanted.

SHOTGUN, WINCHESTER, MODEL 12, DE-luxe Trap Grade with ventilated rib, 30" full choke barrel, brand new, $185.00. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

MODERN GUN REPAIR SHOP. LATHE, precision tools, established business located on 10 acres, in northern Shasta county, in heart of hunting and fishing country. Fenced with stock fence. Two and one-half miles from town, on highway. School buses. Modern furnished home. Excellent water system. Farmall cub tractor, tools. One-half ton pickup. Boat, motor. Garden, berries, fruit, pine timber, hogs, chickens. Active Junior and Senior N.R.A. clubs. Club house and range one-half mile from place. For details, write owner D. F. Stirewalt, Box 27, McArthur, California.

VARMINT RIFLES AND AMMUNITION. List 25¢. "Single-Shot" Ratliff, Dayton, Oregon.

BULLET TRAPS—SAFE AND EFFICIENT with .22 caliber L.R. and all hand guns including .45 caliber. Full 16x16" opening. Complete with removable legs, $25.00, F.O.B. factory. Freight shipping weight 65 pounds. Please send check or Money Order. Wire Rope Products Co., Winsor Ave., Hamilton, Rhode Island.

190-PAGE PROFUSELY ILLUSTRATED catalog crammed with antique and modern pistol, sword, dagger, etc. values sent on receipt of 50¢. Robert Abels, R860 Lexington Ave., New York 21.

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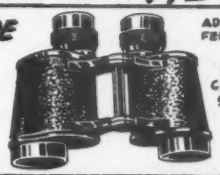

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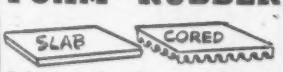

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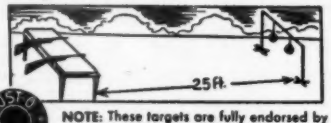

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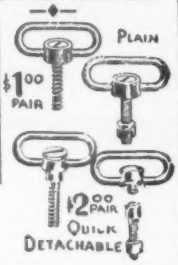

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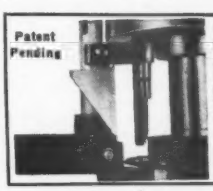

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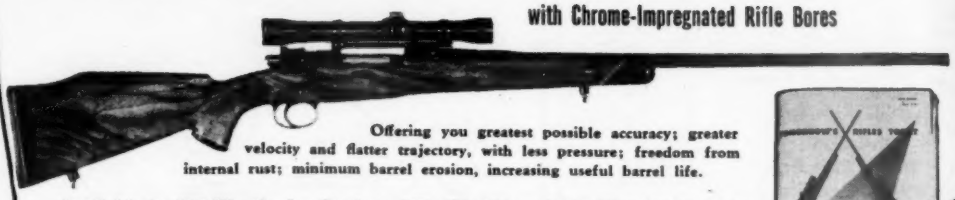

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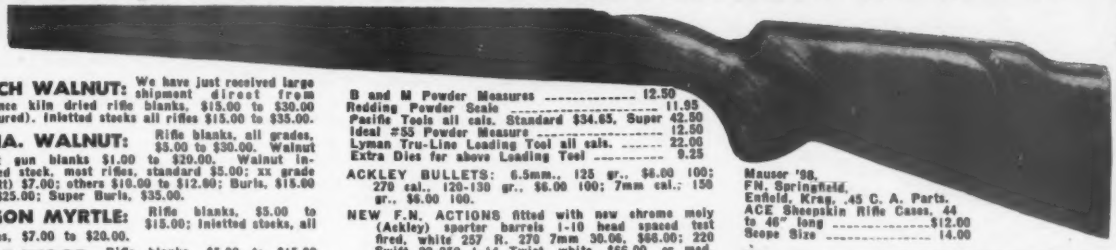

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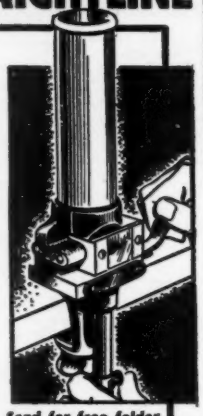

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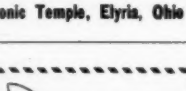

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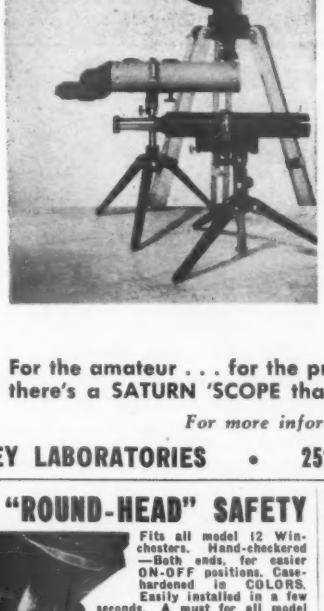

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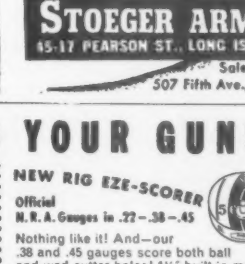

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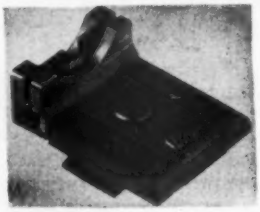

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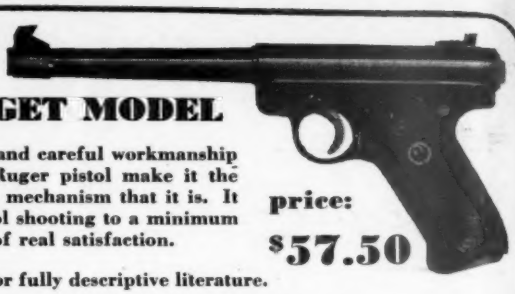

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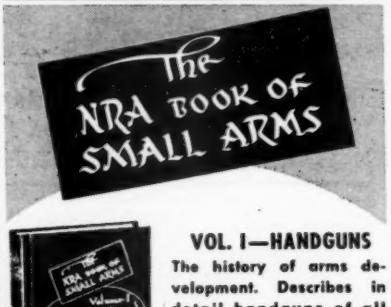

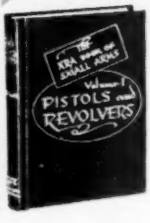

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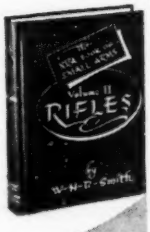

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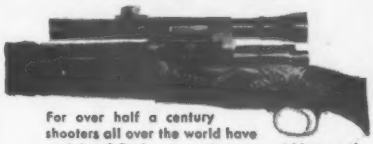

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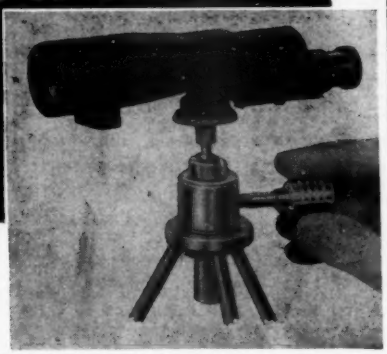

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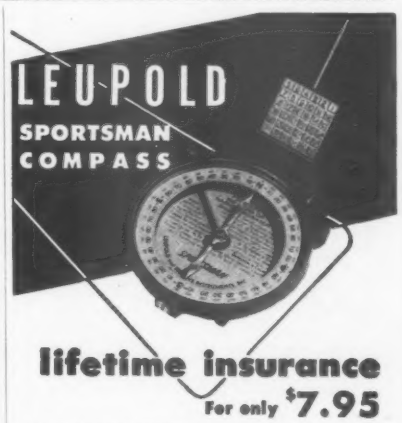

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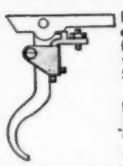

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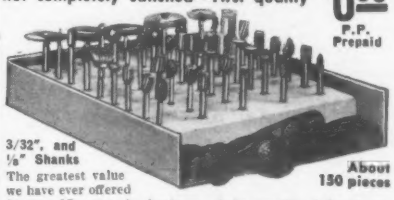

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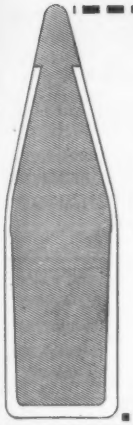

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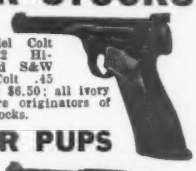

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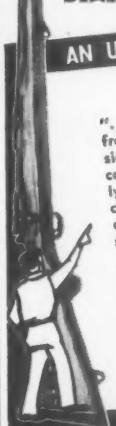

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257 cal. 87 gr. spire SP	3.75
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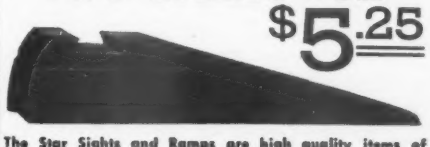

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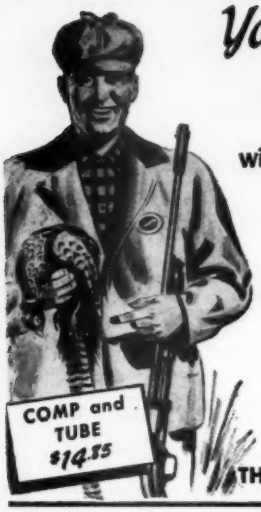

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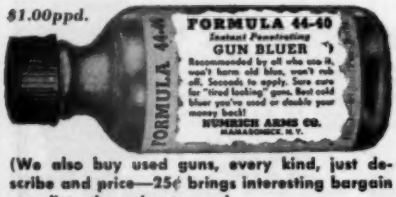
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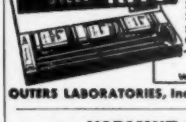

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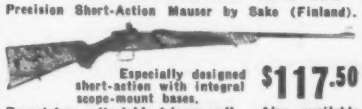

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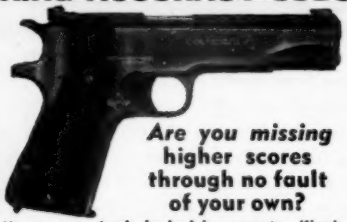

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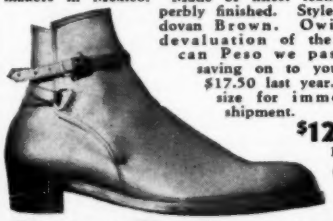

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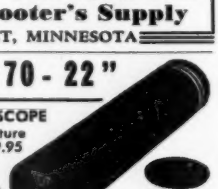

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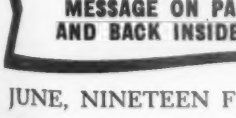

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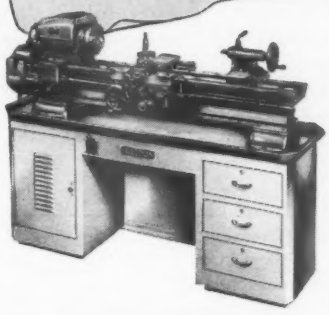

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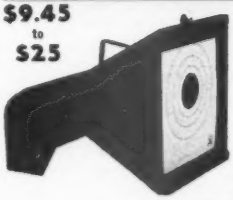

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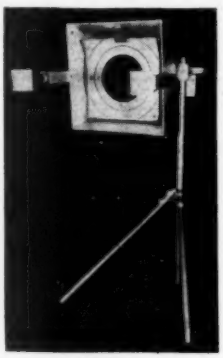

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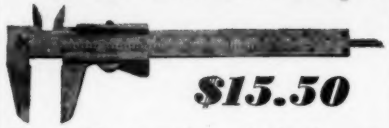

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